

SERVICE MANUAL

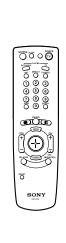
COMMANDER DEST. CHASSIS NO.

RA-6 CHASSIS

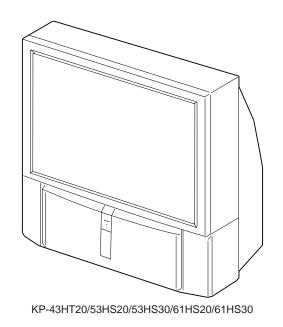
KP-43HT20	RM-Y908	US	SCC-P65C-A
KP-43HT20	RM-Y908	Canadian	SCC-P65C-A
KP-53HS20	RM-Y908	US	SCC-P65D-A
KP-53HS20	RM-Y908	Canadian	SCC-P65D-A

MODEL

<u>MODEL</u>	COMMANDER	DEST.	CHASSIS NO.
KP-53HS30	RM-Y908 L	JS SO	CC-P65A-A
KP-53HS30	RM-Y908 Can	adian St	CC-P65A-A
KP-61HS20	RM-Y908 L	JS SO	CC-P65E-A
KP-61HS20	RM-Y908 Can	adian St	CC-P65E-A
KP-61HS30	RM-Y908 L	JS SO	CC-P65B-A
KP-61HS30	RM-Y908 Can	adian St	CC-P65B-A



RM-Y908





SAFETY CHECK-OUT

(US model only)

After correcting the original service problem, perfom the following safety checks before releasing the set to the customer:

- Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
- 2. Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
- 3. Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.
- 4. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
- Look for parts which, through functioning, show obvious signs of deterioration. Point them out to the customer and recom mend their replacement.
- 6. Check the line cords for cracks and abrasion. Recommend the replacement of any such line cord to the customer.
- 7. Check the condition of the monopole antenna (if any). Make sure the end is not broken off, and has the plastic cap on it. Point out the danger of impalement on a broken antenna to the customer, and recommend the antenna's replacement.
- Check the B+ and HV to see they are at the values specified.
 Make sure your instruments are accurate; be suspicious of your HV meter if sets always have low HV.
- Check the antenna temminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

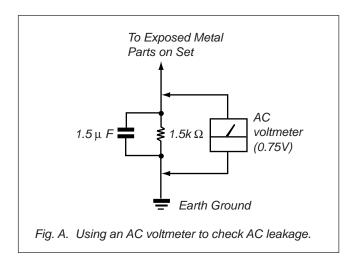
LEAKAGE TEST

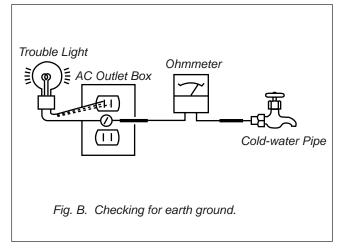
The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5mA (500 microampers). Leakage current can be measured by any one of three methods.

- A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to usc these instruments.
- 2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
- 3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

HOW TO FIND A GOOD EARTH GROUND

A cold-water pipe is guaranteed earth ground; the cover-plate retaining screw on most AC outlet boxes is also at earth ground. If the retaining screw is to be used as your earth-ground, verify that it is at ground by measuring the resistance between it and a cold-water pipe with an ohmmeter. The reading should be zero ohms. If a cold-water pipe is not accessible, connect a 60-100 watts trouble light (not a neon lamp) between the hot side of the receptacle and the retaining screw. Try both slots, if necessary, to locate the hot side of the line, the lamp should light at normal brilliance if the screw is at ground potential. (See Fig. B)





(CAUTION)

THESE SERVICING INSTRUCTIONS ARE FOR USE BY QUALIFIED CES INSTRUCTIONS DE SERVICE SONT À L'USAGE DU PERSONNEL SERVICE PERSONNEL ONLY. TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT PERFORM ANY SERVICING OTHER THAN THAT CONTAINED IN THE OPERATING INSTRUCTIONS UNLESS YOU ARE QUALIFIED TO DO SO.

WARNING!!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BE-CAUSE OF LIVE CHASSIS.

THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK A ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION, REPLACE THESECOMPONENTS WITH SONY PARTS WHOSE PART NUM-BERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLE-MENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFEOPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITI-CAL COMPONENTS ARE REPLACED OR IMPROPER OPERA-TION IS SUSPECTED.

(ATTENTION)

DE SERVICE QUALIFIÉ SEULEMENT. POUR PRÉVENIR LE RISQUE DE CHOC ÉLECTRIQUE, NE PAS FAIRE L'ENTRETIEN AUTRE QUE CELUI CONTENU DANS LE MODE D'EMPLOI À MOINS QUE VOUS SOYEZ QUALIFIÉ FAIRE AINSI.

ATTENTION!!

AFIN D'EVITER TOUT RISQUE DELECTROCUTION PROVE-NANT D'UN CHÁSSIS SOUS TENSION. UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISÉ LORS DE TOUT DEPAN-NAGE.

LE CHÁSSIS DE CE RECEPTEUR EST DIRECTEMENT RAC-CORDÉ Á L'ALIMENTATION SECTEUR.

ATTENTION AUX COMPOSANTS RELATIFS ÁLA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET PAR UNE MAPQUE A SUR LES SCHÉMAS DE PRINCIPE, LES VUES EX-PLOSÉES ET LES LISTES DE PIECES CONT D'UNEIMPORTANCE CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT. NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMÉRO DE PIÉCE EST INDIQUÉ DANS LE PRÉSENT MAN-UEL OU DANS DES SUPPLÉMENTS PUBLIÉS PAR SONY. LES RÉGLAGES DE CIRCUIT DONT L'IMPORTANCE EST CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT SONT IDENTIFIES DANS LE PRÉSENT MANUEL. SUIVRE CES PROCÉDURES LORS DE CHAQUE REMPLACEMENT DE COMPOSANTS CRI-TIQUES, OU LORSQU'UN MAUVAIS FONCTIONNEMENT EST SUSPECTÉ.

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SECTION 1 SELF DIAGNOSIS FUNCTION

1. **Summary of Self-Diagnosis Function**

- This device includes a self-diagnosis function.
- In case of abnormalities, the TIMER/STAND BY indicator automatically blinks. It is possible to predict the abnormality location by the number of blinks. The Instruction Manual describes blinking of the TIMER/STAND BY indicator.
- If the symptom is not reproduced sometimes in case of a malfunction, there is recording of whether a malfunction was generated or not. Operate the remote command to confirm the matter on the screen and to predict the location of the abnormality.

2. **Diagnosis Items and Prediction of Malfunction Location**

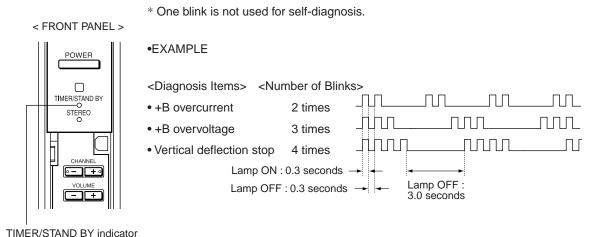
- · When a malfunction occurs the TIMER/STAND BY indicator only blinks for one of the following diagnosis items. In case of two or more malfunctions, the item which first occurred blinks. If the malfunctions occurred simultaneously, the item with the lower blink count blinks first.
- The screen display displays the results regarding all the diagnosis items listed below. The display "0" means that no malfunctions occurred.

Diagnosis Item	No. of times TIMER/STANDBY indicator blinks	Probable Cause Location	Deteced symptoms
Power does not turn on	0	Power cord is not plugged in. Fuse is burned out (F6001) (G board)	Power does not come on. No power is supplied to the unit. AC power supply is faulty.
+B overcurrent (OCP) (See Note 1)	2 times	H. OUT (Q8024) is shorted. (D board) +B PWM (Q8035, 8038) is shorted. (D board)	Power does not come on. Load on power line is shorted.
+B overvoltage (OVP)	3 times	IC501 is faulty (G board) IC5002 is faulty (G board)	Has entered standby mode.
Vertical deflection stopped	4 times	• ++ 15V is not supplied. (D board) • IC8003 is faulty. (A board)	Has entered standby state after horizontal raster. Vertical deflection pulse is stopped. Power line is shorted or power supply is stopped.
White balance failure (Not balanced)	5 times	Video out (IC7101, 7201, 7301) is faulty. (CR, CG, CB board) CRT drive (IC309) is faulty. (A board) G2 is improperly adjusted. (See Note 2)	No raster is generated. CRT cathode current detection reference pulse output is small.
LOW B OCP/OVP (Overcurrent/over voltage) (See Note 3)	6 times	+5 line is overloaded. (A, B boards) +5 line is shorted. (A, B boards)	No picture No picture
Horizontal deflection stopped	7 times	Q8035, 8038 is shorted. (D board)	
High voltage error	8 times	T8005 is faulty. (D board)	
Audio error	9 times	+ 19V line is shorted. (A, B boards) IC708 is faulty. (A board) PS701 or PS702 is opened. (A board)	• No sound

Note1: If a +B overcurrent is detected, stoppage of the vertical deflection is detected simultaneously. The sympton that is diagnosed first by the microcontroller is displayed on screen. Note 2: Refer to Screen (G2) Adjustment in Section 3-1, 2 of this manual.

Note 3: If TIMER/STANDBY indicator blinks six (6) times, unplug the unit and wait 10 minutes before performing the adjustment.

3. Blinking count display of TIMER/STAND BY indicator



Release of TIMER/STAND BY indicator blinking.

The TIMER/STAND BY indicator blinking display is released by turning OFF the power switch on the TV main unit or removing the plug from the power.

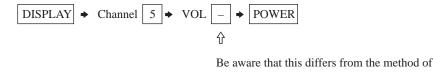
4. Self-diagnosis screen displays

• In cases of malfunctions where it is not possible to determine the symptom such as when the power goes off occasionally or when the screen disappears occasionally, there is a screen display on whether the malfunction occurred or not in the past (and whether the detection circuit operated or not) in order to allow confirmation.

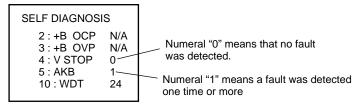
entering the service mode (volume

<Screen Display Method>

• Quickly press the remote command button in the following order from the standby state.



Self-diagnosis screen display



5. Self-Diagnosis Screen Display

- The results display is not automatically cleared. In case of repairs and after repairs, check the self-diagnosis screen and be sure to return the results display to "0".
- If the results display is not returned to "0" it will not be possible to judge a new malfunction after completing repairs.

<Method of Clearing Results Display>

1. Power off (Set to the standby mode)

```
2. DISPLAY → Channel 5 → VOL + → POWER (Service Mode)
3. Channel 8 → ENTER (Test reset = Factory preset condition)
```

<Method of Ending Self Diagnosis Screen>

· When ending the self-diagnosis screen completely, turn the power switch OFF on the remote commander or the main unit.

6. Self-diagnosis function operation

OCP Low B and +B line detect DET SHORT, and shut-down POWER ON RELAY.

Reset by turning power on/off.

In case of +B is loaded approx. 1.5A or more, microcomputer detects it via IC5005

OVP In case of +B becomes approx. 150V or more, POWER ON RELAY shuts down and microcomputer detects it via IC5005.

Reset by turning power on/off just the same as OCP.

Low B Occurs when set +5V is out

V Stop In case of V Drive disappeared, Q8001 detecs it and shut-down POWER ON RELAY. Microcomputer detects it and makes LED blinking.

AKB IK detection. Makes LED blinking in case of microcomputer doesn't detect IK returns of IC309 (CXA2150AQ) 20 seconds or more.

H Stop In case of H DRIVE is disappeared, Q378 detects it and shut-down POWER ON RELAY shuts down.

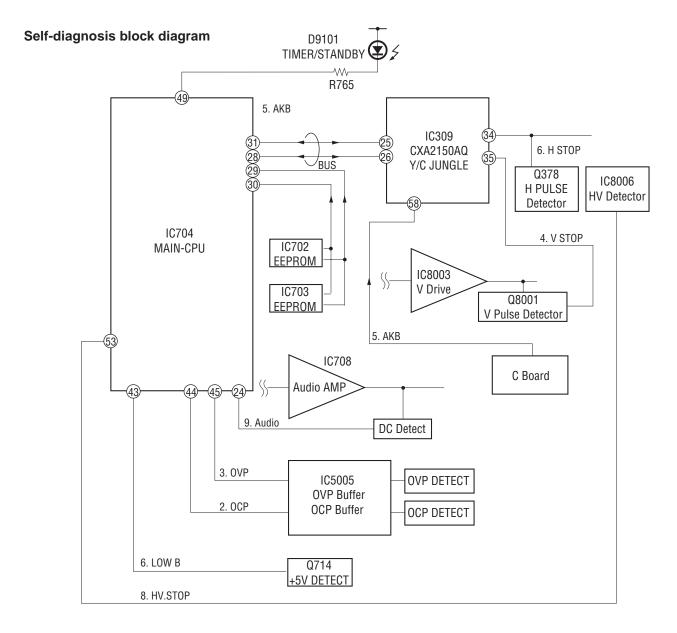
Microcomputer receives H Stop data from Q378 and makes LED blinking.

HV Stop In case of HV becomes 33KV or more. IC8006 detects it and shut-down

POWER ON RELAY. Microcomputer makes LED blinking.

Audio In case of DC component overlaps the output of Audio Amp., POWER ON RELAY shuts down.

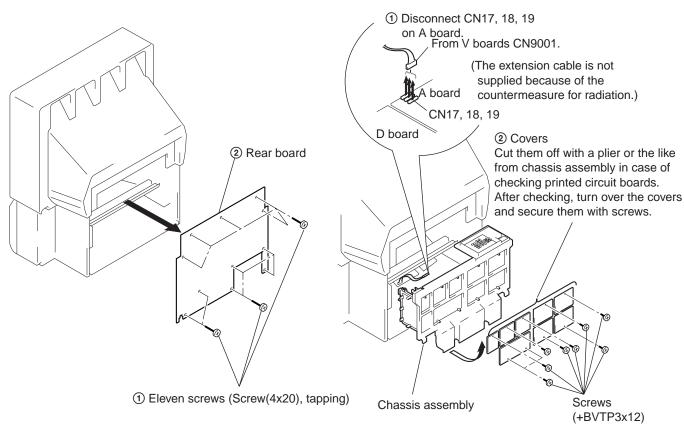
Microcomputer detects it and makes LED blinking.



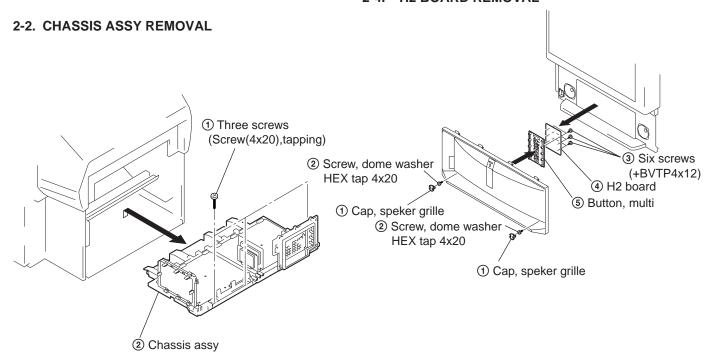
SECTION 2 DISASSEMBLY

2-1. REAR BOARD REMOVAL

2-3. SERVICE POSITION



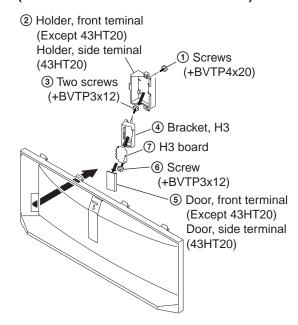
2-4. H2 BOARD REMOVAL



2-5. H1 BOARD REMOVAL

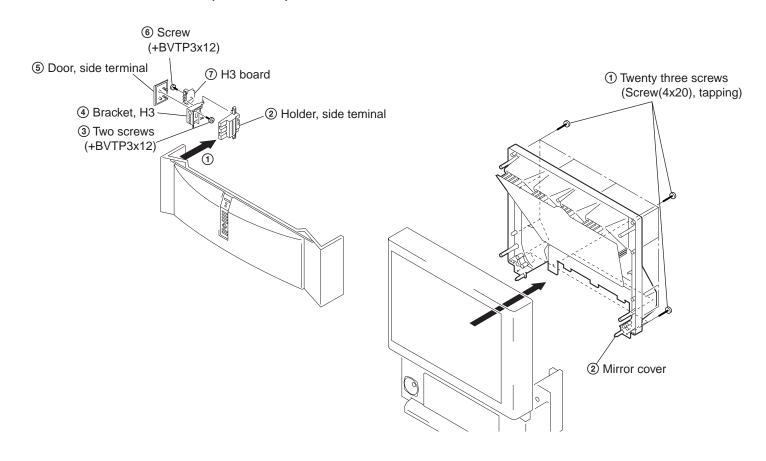
② Bracket H1 ① Two screws (+BVTP4x12) ① Guide, LED ② Screw (+BVTP4x12) ⑤ Screw (+BVTP4x12)

2-7. H3 BOARD REMOVAL (KP-53HS20/53HS30/61HS20/61HS30)

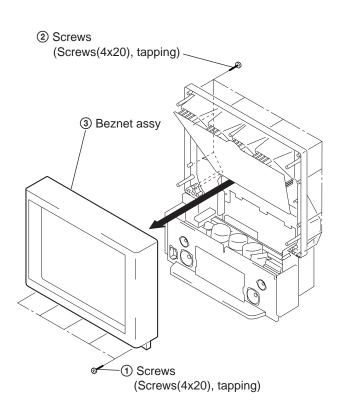


2-6. H3 BOARD REMOVAL (KP-43HT20)

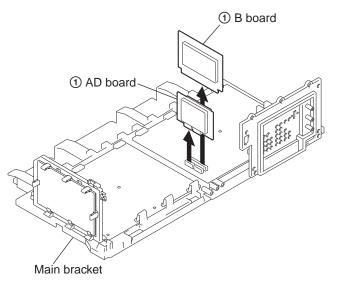
2-8. MIRROR COVER REMOVAL



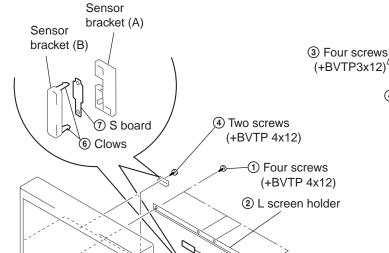
2-9. BEZNET ASSY REMOVAL



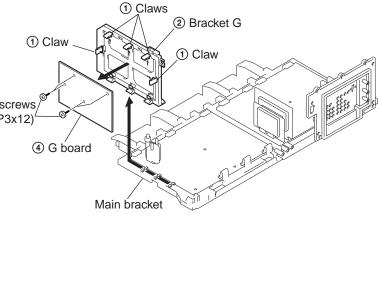
2-11. AD BOARD AND B BOARD REMOVAL



2-12. G BOARD REMOVAL



2-10. H4 BOARD AND S BOARD REMOVAL

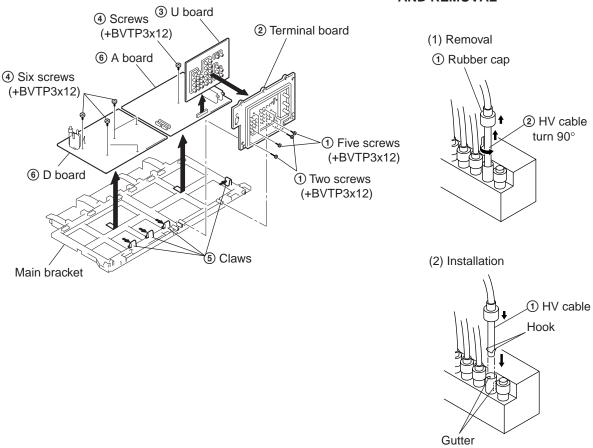


3 H4 board

5 Two screws (+BVTP 4x12)

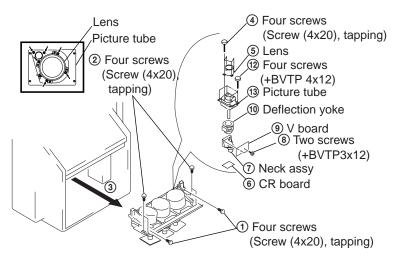
2-13. A BOARD, D BOARD AND U BOARD REMOVAL

2-15-. HIGH-VOLTAGE CABLE INSTALLATION AND REMOVAL



2-14. PICTURE TUBE REMOVAL

CAUTION: Removing the arrow-marked screws is strictly prohibited. If removed, it may cause liquid spill.



SECTION 3

SET-UP ADJUSTMENTS

3-1. SCREEN VOLTAGE ADJUSTMENT (COARSE ADJUSTMENT)

- 1. Receive the Monoscope signal.
- 2. Set 50% BRIGHTNESS and minimum PICTURE.
- Turn the red VR on the FOCUS block all the way to the left and then gradually turn it to the right until the point where you can see the retrace line.
- 4. Next gradually turn it to the left to the position where the retrace line disappears.



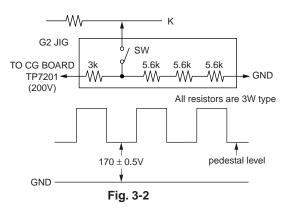
FOCUS block

Fig. 3-1

3-2. SCREEN (G2) ADJUSTMENT (FINE ADJUSTMENT)

Fine Mode is recommended to set screen controls to their optimal condition. It is necessary to build the simple jig, illustrated below, using 3-watt resistors. Please note, that if the proper voltage is not obtained with their listed values, resistors, then please increase or decrease one of the values in the resistor network to obtain the correct voltage.

- 1. Select VIDEO1 mode without signals.
- 2. Connect G2 JIG.
- 3. SW on JIG.
- 4. Connect an oscilloscope to the TP7101(KR), TP7202(KG) and TP7301(KB) of CR board, CG board and CB board.
- 5. Adjust R, G and B screen voltage to $170 \pm 0.5 V$ with screen VR on the Focus block.

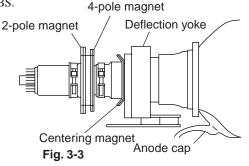


3-3. DEFLECTION YOKE TILT ADJUSTMENT

- Connect the color bar generator monoscope pattern to Video 1 input.
- Cover the both red and blue picture lenses with the lens caps to show only the green color.
- Loosen the deflection yoke set screw and align the tilt of the Deflection Yoke so that the bars at the center of the monoscope pattern are horizontal.
- After aligning the deflection yoke, fasten it securely to the funnel-shaped portion (neck) of the CRT.
- 5. The tilt of the deflection yoke for red is aligned in the mode Cover the both green and blue picture lenses with the lens caps and the tilt of the deflection yoke for blue is aligned with in

the mode Cover the both green and red picture lenses with the lens caps is aligned the same as was done for green.

Note: Instead of items 2 and 5, you can cut off the unnecessary color beams by controlling the service mode CXA2150P-2 0 RGBS.



3-4. FOCUS LENS ADJUSTMENT

In this adjustment, use the remote commander in the service mode.

For details of the usage of the service mode and the remote commander, please refer the item 3-9. ELECTRICAL ADJUSTMENT BY REMOTE COMMANDER.

- 1. Loosen the lens screw.
- Cover the both red and blue picture lenses with the lens caps to show only the green color.
- 3. Turn the green lens to adjust to the optimum focus point with the crosshatch signal.
- 4. Tighten the lens screw.
- Cover the both green and blue picture lenses with the lens caps to show only the red color.
- 6. Adjust red CRT lens just the same as green.
- 7. Cover the both green and red picture lenses with the lens caps to show only the blue color.
- 8. Adjust blue CRT lens just the same as green.
- After adjusting the items 3-5. Focus VR Adjustment, 3-6. 2-Pole Magnet Adjustment and 3-7. 4-Pole Magnet Adjustment, adjust again to the optimum focus point.
- *: Every time you press 6, the test signal changes to "crosshatch+video signal" - "crossbatch+borderline(black)" - "crosshach(black)" - "dots(black)" - off.



Test signal

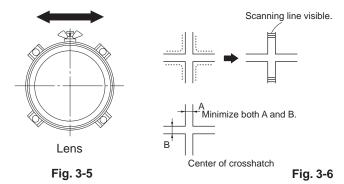
Fig. 3-4

Note: Instead of items 2, 5 and 7, you can cut off the unnecessary color beams by controlling the service mode CXA2150P-2 0 RGBS

3-5. FOCUS VR ADJUSTMENT

- 1. Set generator to crosshatch.
- Cover the both red and blue picture lenses with the lens caps to show only the green color.
- 3. Turn the green focus VR on the focus block to adjust to the optimum focus point with the crosshatch signal.
- Cover the both green and blue picture lenses with the lens caps to show only the red color.
- 5. Turn the red focus VR on the focus block to adjust to the optimum focus point with the crosshatch signal.
- Cover the both green and red picture lenses with the lens caps to show only the blue color.
- 7. Turn the blue focus VR on the focus block to adjust to the optimum focus point with the crosshatch signal.
- 8. After adjusting the items 3-4. Focus Lens Adjustment, 3-6. 2-Pole Magnet Adjustment and 3-7. 4-Pole Magnet Adjustment, adjust again to the optimum focus point.

Note: Instead of items 2, 4 and 6, you can cut off the unnecessary color beams by controlling the service mode 2150P-2 1 RGBS.



3-6. 2-POLE MAGNET ADJUSTMENT

- 1. Set the picture mode to "Pro" and picture to MAX.
- 2. Receive the Dot signal.
- 3. Cover the both red and blue picture lenses with the lens caps to show only the green color.
- 4. Turn the green focus VR on the focus block to the left and set to overfocus to enlarge the spot.
- 5. Adjust 2-pole magnet so that the bright spot should be centered.
- 6. Align the green focus VR and set for just (precise) focus.
- 7. Perform the same alignment for red and blue.

Note: Instead of item 2 you can cut off the unnecessary color beams by controlling the service mode 2150P-2 1 RGBS.

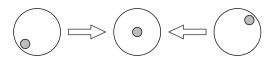


Fig. 3-7

3-7. CENTERING MAGNET ADJUSTMENT

- 1. Set the picture mode to "Pro".
- 2. Receive the monoscope signal.
- 3. Cover the both red and blue picture lenses with the lens caps to show only the green color.
- 4. Adjust the green centering magnet to put the center of the monoscope signal to the center of the screen.
- 5. Adjust the red centering magnet in the same way.
- 6. Adjust the blue centering magnet in the same way.

Note: Instead of item 2 you can cut off the unnecessary color beams by controlling the service mode 2150P-2 1 RGBS.

3-8. 4-POLE MAGNET ADJUSTMENT

- 1. Set the picture mode to "Pro" and picture to MAX.
- 2. Receive the Dot signal.
- 3. Cover the both red and blue picture lenses with the lens caps to show only the green color.
- 4. Turn the green focus VR on the focus block to the right and set the spot will become smaller.
- 5. Adjust the 4-Pole Magnet so that the spot becomes round for green and red.
- 6. Adjust blue spot to an oval shape X:Y=1:1.4 \sim 1.5.

Note: Instead of item 2 you can cut off the unnecessary color beams by controlling the service mode 2150P-2 1 RGBS.

Use the center dot

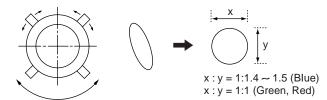


Fig. 3-8

3-9. DEFOCUS ADJUSTMENT (BLUE)

Note: Please adjust the blue dot to be slightly larger than red and green dots. This adjustment provides a more pleasing picture to the customer.

- 1. Select the picture mode to "Pro".
- 2. Receive the Dot signal.
- 3. Cover the both red md green picture lenses with the lens caps to show only the blue color.
- 4. Turn the blue focus VR on the focus block to right to make the round dot elipical.
- 5. Check flare with high luminace signal, make sure flare is minimal while dot shape is elipical.
- 6. Set generator to all white signal and check uniformity.

Note: Instead of item 3 you can cut off the unnecessary color beams by controlling the service mode 2150P-2 1 RGBS.

3-10.ELECTRICAL ADJUSTMENT BY REMOTE COMMANDER

By using Remote Commander (RM-Y908), all circuit adjustments can be made.

NOTE: Test Equipment Required.

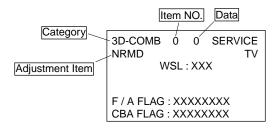
- 1. Pattern Generator (with component outputs)
- 2. Frequency counter
- 3. Digital multimeter
- 4. Audio oscillator

1. METHOD OF SETTING THE SERVICE ADJUSTMENT MODE

SERVICE MODE PROCEDURE

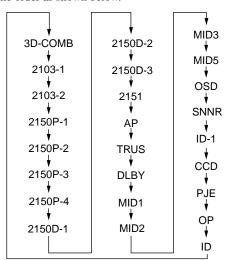
- 1. Standby mode. (Power off)
- DISPLAY → 5 → VOL (+) → TV POWER on the Remote Commander.
 (Press each button within a second.)

SERVICE MODE ADJUSTMENT



- 3. The SCREEN displays the item being adjusted.
- 4. Press 1 or 4 on the Remote Commander to select the adjustment item.
- 5. Press **3** or **6** on the Remote Commander to change the data.
- 6. Press 2 or 5 on the Remote Commander to select the category.

Every time you press 2(Category up), Service mode changes in the order as shown below.



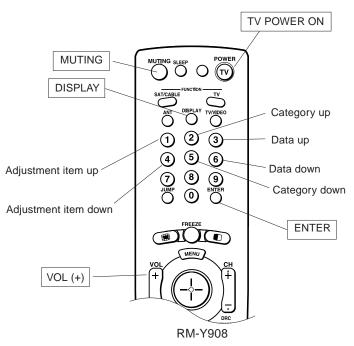
- 7. If you want to recover the latest values press ① then ENTER to read the memory.
- 8. Press MUTING then ENTER to write into memory.
- 9. Turn power off.

Note: Press **8** then **ENTER** on the Remote Commander to initialize or turn set off and on to exit.

2. MEMORY WRITE CONFIRMATION METHOD

- 1. After adjustment, turn power off with the remote commander.
- 2. Turn power on and set to Service Mode.
- 3. Call the adjusted items again and confirm they were adjusted.

3. ADJUSTING BUTTONS AND INDICATOR



Note: When the PJE mode is activated, which displays an internally generated signal, several buttons on the remote commander will have different functions than listed above. Therefore, when in the PJE mode, refer to page 26 for button functions.

4. SERVICE MODE LIST

Note:

shaded items are fixed. There is no need to change data. Others are different a little in the sets individually. Basically, there is no need to change data, too.

0 NRMS New Configuration mode setting SURRY HR & Configuration SURRY HR Strateging SURRY HR Strateging Note: a shows common diam. 1 CALS System of Lock setting 1 VARS No. 1 miles Strateging Strateging 3 NSDS Selection from standard signal processing 1 HVFV MS No. 1 miles No. 1 miles No. 1 miles 4 MSS Selection from standard signal from time inters into processing selection 1 miles No. 2 miles No. 1 miles No. 1 miles 5 KLS No. 1 miles 5 KLS No. 1 miles 6 KDA COLA Colaboration strain place from the from detection company 1 miles No. 1 miles No. 1 miles No. 1 miles 1 COLA Colaboration strain in the front detection of the front of t	Reg.	Reg.No & Name	FUNCTION					
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NRMD Operation mode setting 3 3 CLKS System of text setting 1 a bitch CLKS System of text setting 1 a bitch NSDS Selection for standard or meta-frame/inter-line processing 0 a bitch NSDS Selection for standard for meta-frame/inter-line processing 0 a c RILS Selection for inter-frame/inter-line processing 0 a c c KILS Selection for inter-frame/inter-line processing 0 a c c KILS Selection for inter-frame/inter-line processing 0 a c c CDL C-signal phase wit respect to the Y-signal 3 3 3 3 3 CDL C-signal phase wit respect to the Y-signal 3 3 3 3 3 DYGA DY description grint of trainer for the processing per IV motion description grint 1 1 1 1 CCCO DC descrition grint (Y motion descrition grint) 1 1				Standard	Non-standard	Standard	Non-standard	
VAPA Y-compare conjugation of setting 3 * * CLKS System clock setting * Strictor Strictor Strictor Strictor Strictor Strictor Strictor Strictor Strictor NAMD-2 Strictor Strictor NAMD-3 Strictor DC Selection for inter-frame/inter-line processing 0 *	0		Operation mode setting	0	1	3	3	
CLKS System clock cetting I ° Strideo NSDS Selection for standard/non-standard signal processing 0 0 0 0 MISS Selection for inter-framedure langual processing 0 0 0 0 MISS Selection for inter-framedure-line processing 0 0 0 0 MISS Selection for inter-framedure-line processing 0 0 0 0 KILS Casignal phase with respect to the V-signal 1HF/VHF CV/SV 2 2 DCDL Cackerdinn corning level (C motion detection gain) 1D 1D 1D 1D DCCO DC detection corning level (C motion detection gain) 1 1 1 1 1 DCGA DC detection gain (C motion detection gain) 5 5 5 5 S DCGA DC detection gain (C motion detection gain) 1 1 1 1 1 CRNR Frame recursive V NR confinent filter limit level 1 1 1 1 1	-	YAPS	Y-output correction	3	*			
NSDS Selection for standard non-standard signal processing Control	2	Γ	System clock setting	1	*			
MSS Stelection for standard signal processing Standard Non-standard Non-standard MSS Selection for inter-france/inter-line processing 0 0 0 0 KILS Killer processing selection 1 0 0 0 0 CDL C-signal phase with respect to the V-signal 3 3 3 3 DVGA DV detection corring level V motion detection corring 2 2 2 2 DVGA DV detection corring level (C motion detection gain) 10 10 10 10 DVGA DV detection corring level (C motion detection gain) 5 5 5 5 DVGA DV detection corring gain (C motion detection gain) 1 10 10 10 DVGA DV detection corring gain (C motion detection gain) 5 5 5 5 CNRL Frame recursive VIR motione detection gain 1 1 1 1 1 CNRL Frame recursive CVR motion detection gain detection 1 1 1 1				UHF/VHF	& Cvideo	Svi	oap	
NSDA Selection for standard/more standard signal processing 0 0 0 0 MISS Selection for standard/more standard signal by coversing 0 0 0 0 RLIS Civiliant extrancolor-line processing selection 1 0 0 0 0 RLIS Killer processing selection 1 1 2 2 2 2 2 2 2 10 </td <td></td> <td></td> <td></td> <td>Standard</td> <td>Non-standard</td> <td>Standard</td> <td>Non-standard</td> <td></td>				Standard	Non-standard	Standard	Non-standard	
MASS Selection for inter-frame/inter-line processing 0 * KILS Killer processing selection 1 3 3 CDL C-signal phase with respect to the V-signal NRMD=0 NRMD=1 NRMD=2 DVCO DV detection certing level (V motion detection gain) 1 1 1 DVCA DV detection certing lain (Y motion detection gain) 5 5 5 5 DVGA DV detection certing lain (Y motion detection gain) 1 1 1 1 DVGA DV detection certing lain (Y motion detection gain) 5 5 5 5 DVGA DV detection gain (Y motion detection gain) 1 1 1 1 DVGA DV detection gain (Y motion detection gain) 5 5 5 5 5 VNRL Frame recursive VNR motinear filter limit level 1 1 1 1 1 VNRL Frame recursive for Rysic constrained signal detection 1 1 1 1 1 VNRL Sensitivity for Flance non-stan	3		Selection for standard/non-standard signal processing	0	0	0	0	
KILS Killer processing selection 1 ° CDL C-signal phase with respect to the Y-signal 3 3 DVCD C-signal phase with respect to the Y-signal 3 3 DVCD DV detection corring level Y motion detection coring 2 2 2 DVCA DV detection corring level (C motion detection gain) 10 10 10 DVCA DV detection corring level (C motion detection gain) 5 5 5 DVCA DV detection corring level (C motion detection gain) 5 5 5 DVCA DV detection corring level (C motion detection gain) 1 1 10 DVCA DV detection corring level (C motion detection gain) 5 5 5 5 DVCA DV detection 1 1 1 1 1 1 CNRL Frame recursive CNR nonlinear filter limit level 1 1 1 1 1 1 VNRL Sensitivity for Hsystex non-standard signal detection 1 1 1 1 1 <td>4</td> <td></td> <td>Selection for inter-frame/inter-line processing</td> <td>0</td> <td>*</td> <td></td> <td></td> <td></td>	4		Selection for inter-frame/inter-line processing	0	*			
CDL Coignal phase with respect to the Y-signal UHF/VHF CV/SV DYCO DV detection coring kevel (Y notion detection oring) 2 2 2 DYCO DV detection coring kevel (Y notion detection gain) 10 10 10 DCCO DC detection gain (Y motion detection gain) 5 5 5 5 DCCO DC detection gain (C motion detection gain) 5 5 5 5 DCCA DC detection gain (C motion detection gain) 5 5 5 5 DCCA DC detection gain (C motion detection gain) 1 0 0 0 CNRL Frame recursive Y/R and contract filter limit level 1 1 1 1 CNRL Frame recursive P/R producer filter limit level 1 1 1 1 VTRR Sensitivity for frame non-standard signal detection 2 2 2 2 VAPP V-aperture compensation gain 0 0 0 0 0 VAPP V-aperture compensation gain detection 0	5	KILS	Killer processing selection	1	*			
CDL. C-signal plane with respect to the V-signal 3 3 NRMD=3 DV decention gain (Y motion detection gain) 10 1				UHE/VHF	CV/SV			
POCO DV detection coring level (Y motion detection coring) NBMD=0 NBMD=1 NBMD=2 NBMD=3 DVGA DV detection coring level (Y motion detection gain) 10 10 10 10 DCCO DC detection coring level (C motion detection gain) 5 5 5 5 DCGA DC detection coring level (C motion detection gain) 5 5 5 5 5 DCGA DC detection coring level (C motion detection gain) 6 5 </td <td>9</td> <td>CDL</td> <td>C-signal phase with respect to the Y-signal</td> <td>3</td> <td>3</td> <td></td> <td></td> <td></td>	9	CDL	C-signal phase with respect to the Y-signal	3	3			
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DYGA DY detection gain (Y motion detection gain) 10 10 10 10 DCGA DC detection gain (Y motion detection gain) 5 5 5 5 DCGA DC detection gain (C motion detection gain) 5 5 5 5 YNRL Frame recursive CNR nonlinear filter limit level 1 1 8 5 5 CNRL Frame recursive CNR nonlinear filter limit level 1 2 2 2 2 2 2 2 2 2 2 <t< td=""><td>7</td><td></td><td>DY detection coring level (Y motion detection coring)</td><td>2</td><td>2</td><td>2</td><td>2</td><td></td></t<>	7		DY detection coring level (Y motion detection coring)	2	2	2	2	
DCCO DC electriciton coring freed (C motion detection coring) 5 5 5 DCGA DC electriciton coring gleed (C motion detection gland) 5 5 5 5 DCRL Frame recursive CNR nonlinear filter limit level 1 1 * * 5 CNRL Frame recursive CNR nonlinear filter limit level 1 </td <td>∞</td> <td>Π</td> <td>DY detection gain (Y motion detection gain)</td> <td>10</td> <td>10</td> <td>10</td> <td>10</td> <td></td>	∞	Π	DY detection gain (Y motion detection gain)	10	10	10	10	
DCGA DC detection gain (C motion detection gain) 5 5 NNRL Frame retains V NR notinear filter limit level 1 ° CNRL Frame retains V NR notinear filter limit level 1 1 VTRA Frame retains C NR notinear filter limit level 1 1 1 VTRA Sensitivity for Rsyste non-standard signal detection 1 1 1 1 LDSR Sensitivity for frame non-standard signal detection 2 2 2 2 2 VAPG V-aperture compensation gain 0 0 0 0 0 0 VAPI V-aperture compensation convergence point 0 0 0 0 0 VAPI V-aperture compensation convergence point 0 0 0 0 0 VAPI V-aperture compensation convergence point 0 0 0 0 0 VAPI V-aperture compensation convergence point 0 0 0 0 0 VAPI V-aperture compensation convergence poin	6		DC detection coring level (C motion detection coring)	5	5	5	5	
WRIL Frame recursive VNR nonlinear filter limit level 1 * CNRL Frame recursive CNR nonlinear filter limit level 1 1 1 VTRH Hysteresis for Hysters non-standard signal detection 1 1 1 1 VTRH Hysteresis for Hysters non-standard signal detection 1 1 1 1 LDSR Sensitivity for firms non-standard signal detection 2 2 2 2 LDSR Sensitivity for firms non-standard signal detection 2 2 2 2 AAPD V-specture compensation gain 0 0 0 0 VAPP V-specture compensation gain 0 0 0 0 YPEG Y peaking filter (BPP) senter frequency 3 0 0 0 YPEG Y peaking filter (BPP) gain SNNR-0 SNNR-1 SNNR-2 SNNR-3 YHCO Y peaking filter (BPP) gain SNNR-0 SNNR-1 1 1 YHCO Y peaking filter (BPP) gain 1 1 1	01	Γ	DC detection gain (C motion detection gain)	5	5	5	5	
CNRL Frame recursive CNR nonlinear filter limit keel 1 * VTRH Hysteresis for Hsyster non-standard signal detection 1 1 1 1 VTRH Sensitivity for Hsyster non-standard signal detection 1 1 1 1 1 LDSR Sensitivity for Instruction-standard signal detection 1 <td>Π</td> <td>YNRL</td> <td>Frame recursive YNR nonlinear filter limit level</td> <td>1</td> <td>*</td> <td></td> <td></td> <td></td>	Π	YNRL	Frame recursive YNR nonlinear filter limit level	1	*			
WTRH Hysteresis for Hsyster non-simulard signal detection UHF/VHF Video1-4 Video5&6 UNRR Sensitivity for frame non-standard signal detection 1 1 1 1 LDSR Sensitivity for frame non-standard signal detection 2 2 2 2 VAPG Vaporture compensation gain 0 0 0 0 0 VAPI V-aperture compensation convergence point 0 0 0 0 0 VAPI V-aperture compensation convergence point 0 0 0 0 0 VAPI V-aperture compensation convergence point 0 0 0 0 0 VAPI V-aperture compensation convergence point 0 0 0 0 0 VAPI V-aperture compensation convergence point 0 0 0 0 0 VAPI V-aperture compensation convergence point 0 0 0 0 0 0 VFC V peaking filter (BPP) gain 0 0	12	CNRL	Frame recursive CNR nonlinear filter limit level	1	*			
VTRH Hysteresis for Hyste non-standard signal detection 1 1 1 1 VTRH Sensitivity for Irlaysue non-standard signal detection 1 2 2 2 LDSR Sensitivity for Irlaysue non-standard signal detection 2 2 2 2 LDSR Sensitivity for Irlaysue non-standard signal detection 2 2 2 3 VAPD Va-sperture compensation gain 0 0 0 0 0 VAPP V-sperture compensation gain 3 0 0 0 0 YPET Y peaking filter (BPP) gain SNNR-0 SNNR-0 SNNR-1 SNNR-2 YPEG Y peaking filter (BPP) gain SNNR-0 SNNR-1 SNNR-3 YHCO Y couput high frequency component coring gain 1 1 1 HSSL Hsyne site level 8 8 1 ADCA ADC clock delay NRMD-1 NRMD-2 NRMD-3 ADCA ADC clock delay A 4 4				UHE/VHF	Video1-4	Video5&6		
VTRR Sensitivity for Hsyste non-standard signal detection 1 1 1 1 LDSR Sensitivity for Frame non-standard signal detection VM-off VM-II VM-Mid VM-High VAPE V-aperture compensation gain 0 0 0 0 VAPI V-aperture compensation gain 0 0 0 0 VAPI V-aperture compensation gain 0 0 0 0 VAPI V-aperture compensation gain 0 0 0 0 YPEI Y peaking filter (BPF) gain SNNR-0 SNNR-1 SNNR-2 YHCO Y output high frequency component coring 0 0 0 0 YHCO Y output high frequency component coring gain 1 1 1 1 YSSL Vsyne sites level 8 0 0 0 0 YSSL Vsyne sites level 8 0 1 1 1 ADCL ADC clock delay 8 0 0 0	13	VTRH	Hysteresis for Hsysnc non-standard signal detection	1	1	1		
UDSR Sensitivity for frame non-standard signal detection 2 2 2 VM-High VAP Descriptivity for frame non-standard signal detection VM - M - M - M - M - M - M - M - M - M -	14	Π	Sensitivity for Hsysnc non-standard signal detection	1	1	1		
VAPIG V-aperture compensation gain VM=GR VM=Low VM=Med VM-High VAPIG V-aperture compensation gain 0 0 0 0 YPE V-aperture compensation convergence point 0 0 0 0 YPE Y peaking filter (BPP) gain 3 0 0 0 YPFG Y peaking filter (BPP) gain SNNR=0 SNNR=1 SNNR=2 0 YHCO Y output high frequency component coring 0 1 1 1 YHCO Y output high frequency component coring gain 1 1 1 1 YSL Vsyne sites level 8 * * * ADCI, ADC clock delay * * * * ADCIA ADC clock delay * * * * MIRA Miller decction reference 3 * * * SSL Xiller decction reference 3 * * 4 4	15		Sensitivity for frame non-standard signal detection	2	2	2		
VAPG V-aperture compensation guin 0 0 0 0 VAPI V-aperture compensation convergence point 0 0 0 0 YPET V-aperture compensation convergence point 0 0 0 0 YPEG Y peaking filter (BPP) guin 3 0 0 0 YPEG Y peaking filter (BPP) guin 5NNR-0 5NNR-1 5NNR-2 5NNR-2 YHCO Y output ligh frequency component coring gain 1 1 1 1 YSSL Hyno cliec level 6 0 1 1 1 YSSL Vsyne cliec level 8 0 0 1 1 ADCL ADC clock delay 8 0 0 0 0 ADCA ADC clock delay 8 0 0 4 4 4 KIR Killer decction reference 3 0 4 4 4 4				VM=off	VM=Low	VM=Mid	VM=High	
VAPI V-aperture compensation convergence point 0 0 0 YPET Y peaking filter (BPP) center frequency 3 SNNR=-1 SNNR=-2 YPFG Y peaking filter (BPP) gain 3 0 1 2 YHCO Y compart high frequency component coring gain 0 1 1 1 YHCG Y couptu high frequency component coring gain 1 1 1 1 HSSL Hysne side level 8 * * * ADCL ADC clock delay 8 * * D2GA Moving detection gain 4 4 4 KIIR Killer detection reference 3 * *	16	_	V-aperture compensation gain	0	0	0	0	
YPEG Y peaking filter (BPP) genter frequency 3 SNNR=-0 SNNR=-0 YPEG Y peaking filter (BPP) genter frequency 9 0 0 0 YPEG Y peaking filter (BPP) genter frequency 9 0 0 0 0 YHCO Y output high frequency component coring 0 1 1 1 1 YHCO Y output high frequency component coring gain 1 1 1 1 1 HSSL Hsyne sike level 8 * * * * ADCI. ADC clock delay 8 * * * * D2GA Moving detection gain 4 4 4 4 4 4 KIIR Killer detection reference 3 * * 4 4 4 4 4	17	VAPI	V-aperture compensation convergence point	0	0	0	0	
YPEIT Y peaking filter (BPP) center frequency 3 0 0 0 YPGG Y peaking filter (BPP) gain 9 0 1 1 2 YHCO Y carpat high frequency component coring 0 1 1 1 1 YHCG Y carpat high frequency component coring gain 1 1 1 1 1 YSSL Hayne side level 8 * * * * ADCI, ASSL ADC clock delay 8 * * * * D2GA Moving detection gain 1 4 4 4 4 4 4 KIIR Killer detection reference 3 * * * 4 4 4 4 4					SNNR=0	SNNR=1	SNNR=2	SNNR=3
YPEG Y peaking filter (BPP) gain 9 0 1 2 YHCO Y cunput high frequency component coring gain 0 1 1 1 YHCG Y cunput high frequency component coring gain 1 1 1 1 HSSL Hsyne sides level 8 ° 1 1 ADCL ADC clock delay 8 ° 8 0 ADCA ADC clock delay 3 ° NRMD=3 NRMD=3 RIR Killer descrion gain 4 4 4 4 4 KILR Killer descrion reference 3 ° 4 4 4	18	YPET	Y peaking filter (BPF) center frequency	3	0	0	0	0
YHCO Y output ligh frequency component coring SNNR=0 SNNR=1 SNNR=2 SNNR=3 HSSL Y output ligh frequency component coring gain 1 1 1 1 1 HSSL Hsync sites level 1 1 1 1 1 1 VSSL Vsync kiec level 8 ° ° ° 8 ° ADC clock delay NR MD=3 NRMD=3	19		Y peaking filter (BPF) gain	6	0	1	2	3
YHCO Youtput high frequency component coring 0 1 1 1 YHCO Youtput high frequency component coring gain 1 1 1 1 1 HSSL Hsync sites level 1 8 * * * ADCI. ADC lock delay 8 * * * D2GA ADC clock delay NRMD=0 NRMD=0 NRMD=3 NRMD=3 KIR Killer decction reference 3 * 4 4 4 4				SNNR=0	SNNR=1	SNNR=2	SNNR=3	
WHCG Youngut light frequency component coring gain 1 1 1 1 HSSL Hyprox site evel 12 ° ° ° VSSL Vysprox site evel 8 ° ° ADCL ADC clock delay 8 ° ° ADCA ADC clock delay 8 ° A D2GA Moving detection gain NRMD=1 NRMD=2 RIJR Killer detection grinner 4 4 KILR Killer detection reference 3 °	20	YHCO	Y output high frequency component coring	0	1	1	1	Note: YHCO & YHCG are defined directly by SNNR data.
HSSL Hsync slice level 12 * VSSL Vsync slice level 8 * ADCL ADCclock delay 8 * DSGA Moving detection gain NRMD=1 NRMD=1 NRMD=2 KILR Killer detection reference 3 * 4 4	21	YHCG	Y output high frequency component coring gain	1	1	1	1	
VSSL. Vsync slice level 8 " ADCL. ADC clock delay 3 " D2GA. Moving detection gain 4 4 KILR. Killer detection reference 3 "	22	HSSL	Hsync slice level	12	*			
ADCL ADC clock delay 3 ° D2GA Moving detection gain 4 4 KILR Killer detection reference 3 *	23	ASSL	Vsync slice level	8	*			
D2GA Moving detection gain A 4 4 4 4 4 A KII.R Killer detection reference 3 * * *	24		ADC clock delay	3	*			
D2GA Moving detection gain 4 KILR Killer detection reference 3				NRMD=0	NRMD=1	NRMD=2	NRMD=3	
KILR Killer detection reference	25	D2GA	Moving detection gain	4	4	4	4	
	26	KILR	Killer detection reference	3	*			

3D-C	3D-COMB uPD64082	D64082								
Reg.	Reg.No & Name	FUNCTION								
27	27 OP	Option: Selection of comb filter&recursive n.reduction types.	1	*						
			UHE/VHF	CVideo1	SVideo1	CVideo2	SVideo2	CVideo3	SVideo3	CVideo4
28	NRI	Noise reduction on/off	0	0	1	0	1	0	-	0
53	NR2	SNNR control on/off	0	*						
30	MSF	Noise level detection level data	0-255	Read Data						
31	HPLL	H-PLL filter	1	*						
32	BPLL	Burst PLL filter	1	*						
33	FSCF	Burst extraction gain	0	*						
34	PLLF	PLL loop gain	1	*						
			UHE/VHF	Video1-4	Video5&6					
35	CC3N	Selection if a line-comb filter C separation filter characteristic	0	0	0					
36	HDP	Fine adjustment of the system H-phase	5	*						
37	BGPS	Internal	4	*						
38	BGPW		10	*						
39	TEST	Test bit (0:Normal mode 1:Test mode) * forbidden setting	0	*						
40	WSC	Amount of noise detection coring	1	*						
			UHF/VHF & Videol-4	: Video1-4	Video5&6					
41	TIND	DRC-M line-doubling setting for non-standard signals UHF/VHF&Video1-4	0		2					
42	PFGO	(YPFG offset at GR on) * Not used	3	*						
			SNNR=0	SNNR=1	SNNR=2	SNNR=3				
#16	#16 VAPG		0	0	0	0				

SNNR=0 SNNR=1 SNNR=2 SNNR=3 0 1 2 3	Note: Reg. No 14 to 19 are the same data as CXA2103-1. (the same NVM address)	UBLK4 UBLK5 UBLK7 UBLK
TVE Video VCEC-480i PARP Left (M)-DRC 27 46 27 46 27 46 ADI (7) ADI (7) ADI (7) ADI (7) <td> PRP & Favorite PRP & Favorite 1 1 1 1 1 1 1 1 1 </td> <td> P&P & Favorite</td>	PRP & Favorite PRP & Favorite 1 1 1 1 1 1 1 1 1	P&P & Favorite
hroma Decoder) CXA2103-1 (Main) FUNCTION FUNCTION FUNCTION FUNCTION FUNCTION Sub-control Sub-control Sub-nue Sharpness pre-over-shoot ratio Chroma band filter O setting Chroma band filter on of f Y Cb -C-t-Oupp ain (PLL between Hsyne & HVCO) V Countdown system mode selector H&Vsyne side level setting H&Vsyne side level setting H automatic adjustment video H TIM phase adjustment video	Single Picture DC Transmission Raio P&P & Favorite UBLK=0 OF Transmission Raio P&P & Favorite UBLK=0 O Transmission Raio P&P & Favorite UBLK=0 O Transmission Raio P&P & Favorite UBLK=0 O Transmission Raio P&P & Favorite UBLK=0 FUNCTION Sub Contrast Sub contrast Sub color Sub num Sub num Sub color Sub num Sub n	Single Picture Auto-pedestal Inflection Point P&P & Favorite UBLK=0 DC Transmission Ratio P&P & Favorite UBLK=0 0
NTSC-YCT (C Reg. No & Name 0 YLEV 1 CLEV 2 SCON 3 SCOL 5 SHUE 5 SHUE 6 SHAP 7 SHP0 6 SHAP 7 SHP0 10 BPF0 11 BPSW 11 BPSW 12 TRAP 13 TRAP 14 AFCG 16 SSMD 16 SSMD 16 SSMD 17 HASK 18 HALL 19 PPHA	NTSC-YCT (C Reg. No & Name NTSC-YCT (C	22 ATPD 23 DCTR

CRT	Driver C3	XA2150P-1 (Picture Contr							
Reg.N	Reg.No & Name	FUNCTION		i		1000	4000	0000	4
o	SROT	Officer for SRRT	Onr/vnr	3 =	ÀS C	100014001	100CI490F	1000110901	7
-	YOF	V OFFICE DC-offset for V signal	0	0	0	, 0	, 0	, 0	` 0
, ,	CROF	CR OFFSET: DC-offset for Ch signal	35	35	35	37	9	- F	35
	CROF	CR OFFSET: DC-offset for Cr signal	39	35	3,5	39	14	3 2	36
4	SBRT	SUB BRT: Sub Bright	ADJ (24)	*	2		:		
. 5	RDRV	R DRIVE: R output drive	ADJ (31)	*					
9	GDRV	G DRIVE: G output drive	41	*					
7	BDRV	B DRIVE: B output drive	ADJ (31)	*					
œ	RCUT	R CUTOFF: Routput cutoff	ADJ (31)	*					
6	GCUT	G CUTOFF: G output cutoff	31	*					
10	BCUT	B CUTOFF: B output cutoff	ADJ (31)	*					
			Vivid (Cool)	Std (Neutral)	Movie (Warm)	Pro			
11	^	WBSW	0 (no memory)	0 (no memory)	0 (no memory)	0 (no memory)			
12		Offset for SBRT	63	63 (no memory)		63 (no memory)			
13		Offset for RDRV	63	63 (no memory)	99	63 (no memory)			
14	GDOF	Offset for GDRV	63	63 (no memory)	63	63 (no memory)			
15	BDOF	Offset for BDRV	89	63 (no memory)		63 (no memory)			
16	RCOF	Offset for RCUT	63	63 (no memory)		63 (no memory)			
17	GCOF	Offset for GCUT	63	63 (no memory)		63 (no memory)			
18	BCOF	Offset for BCUT	64	63 (no memory)	63	63 (no memory)			
CRT	Driver C	CRT Driver CXA2150P-2 (Picture Controls:P2)							
Reg.N	Reg.No & Name	-							
0	ALBK	PIC ON	1	*					
_	RGBS	R ON/G ON/B ON: R/G/B outputs on/off	7	*					
2	BLKB	BLK BTM: RGB output bottom limit level (Black level)	3	*					
3	LIML	PLIMIT LEV: Threshold level for excessively high inputs	0	*					
4	PABL	P ABL: DC-level in RGB output detection for PEAK ABL	15	*					
2	SABL	S ABL: S ABL gain	0	*					
9	AGNG	AGING W/AGING B: AGING W/AGING B modes on/off	0	*					
7	AKBO	AKBOFF: Automatic/Manual = Cut off setting	0	*					
			UHE/VHF V1 _ 4	YCbCr480i	YCbCr480P	YCbCr1080i	P&P		
∞	SYPH	SYNC PHASE: Hsync delay with respect to Video (100% H-period)	0	0	0	0	0		
6	CLPH	CLP PHASE: Internal clamp pulse phase (100%H-period)	60	3	3	3	3		
10	CLGA	CLP GATE: Switch for the gated internal clamp pulse with Hsync	0	0	0	0	0		
= =	DIVO	JAXIS: color axis switch	0 0	e e					
71	BLAU	BLAU: Blanking switch	0	÷					
CRT	Driver C2	CRT Driver CXA2150P-3 (Picture Controls:P3) (Part1)							
Reg.N	Reg. No & Name	FUNCTION	Vivid						
			UHE/VHF	CV	SV	YCbCr480i	YCbCr480P	YCbCr1080i	P&P
0	SYSM	SYSTEM: Signal bandwidth setting	1	1	1	1	1	2	2
-	UVML	VM LEV: VM OUT level	3	3	3	2	2	3	3
2	VMMO	System Micro pin#40	1	1	1	1	1	1	0
3	VMCR	VM COR: VM OUT coring level	0	0	0	-	-	3	3
4 1	VMLM	VM_LMT: VM_OUT limit level	en e		ю.	en e	ec 6	eo (60
5	VMF0	VM F0: VM f0	2	2	2	2	2	2	2
9 1	VMDL	VM_DLY:VM_OUT phase (defined by phase difference from R_OUT)	2	2	2	2	2		
7	SHOF	Offset for USHP=SHOF x 4	0	2	2	3	3	60	3
∞	SHF0	SHP F0: Sharpness circuit f0	_	-	-	-	_	0	
6	PROV	PRE/OVER: Y signal pre/over-shoot ratio	1	0	0	0	2	0	0
10	FILV	SHP F1: Sharpness for higher f0 (4.2/5.6Mhz @NORMAL mode)	60	3	23	0	_	60	3
=	CUSP	SHP CD: Sharpness in part of high color saturation	5	3	3	5	3	5	8
12	LTLV	LTI LEV: Luminance transient improvement (LTI)	s (3	80 0	s s	9	3	3
51	LIMD	LII MODE LII mode setting	0	0	0	0	0	- 0	-
± 7	CILV	CTI LEV: Circimitance transfer improvement (C11)	0	0	0	0	0	0	0
CI 91	TIROF	Officer for HRRT (Picture clarity adjustment)	0	0	0	13	6	0	0
17	UCOF	Offset for UCOI=UCOF x 2 (Picutre clarity adjustment)	3	3	3	3	3	0	2
18	UHOF	Offset for UHUE (Picutre clarity adjustment)	0	0	0	0	0	0	0
19	MIDE	MID enhancement setting	3	15	15	7	11		

UBLKO

DC TRAN: Y signal DC tra
DPIC LEV: Y signal AUTC
Offset for SBRT
ABL MODE: ABL mode

DCTR DPIC DSBO ABLM

UBLK

Reg.No & Name	ame FUNCTION		L	- 1	Standard		L	÷	ŀ	ł	ı			L	+	ŀ		P.B		ľ	١
		VHF	C	SV	YCbCr 480i	YCbCr 480P	YCbCr 1080i	P&P	HI HI	ر. ح	SV YC	YCbCr YC	YCbCr YCbCr 480P 1080i	Cr Di		C	SA	YCbCr 480i	YCbCr 480P	YCbCr 1080i	Ρ&Ρ
WSAS 0#		-	1	-	1	_	2	2	-	-	_	+	_	2	-	1	-	1	-	2	2
		2	2	2	2	2	3	3	-	-	-	_	-	-	0	0	0	0	0	0	0
#2 VMMO		-	1	1	1	1	1	1	0	0	0	0	0 0	0	0	0	0	0	0	0	0
		0	0	0	_	-	3	3	-	_	_	_	1 3	3	3	3	3	3	3	3	3
		3	3	3	3	3	3	3	3	3	3	3	3 3	3	3	3	3	3	3	3	3
\neg		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
		2 .	7 ,	7 ,	2 0	2 0	- 0	- (7 .	2	2	2	1 .	- -	2	2	7 0	2 0	2 0		- <
#/ SHOF		- -	-	-	7	7	2	- -	-	_	_	_	-	- -	> - -	۰	۰	٥ .	Э,	٥ .	٠
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		-	0	0	0	0	0	0	2	2	8	6	2	3	6	3	3	3	2	2	m
		33	3	3	0	-	33	3	3	3	3	_	_	+	3	3	3	-	2	3	3
		3	3	3	3	3	3	3	0	0	0	\dashv	\dashv	4	4	0	0	0	0	0	0
#12 LTLV		2	2	2	2	2	2	2	0	0	0	0	0 0	0	0	0	0	0	0	0	۰
		-	-	-	-	-	-		-	-	_	1	4	4	-	-	-	-	1	-	-
		0	0	0	0	0	0	_ -	0	0	0	\dashv	\dashv	\dashv	4	0	0	٥	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0 0	0	0	0	0	0	0	0	0
		15	12	15	12	12	4	4	7	7	7	\dashv	\dashv	\dashv	7	7	7	7	7	7	٢
#17 UCOF		-	-	-	-	-	0	0	0	0	0	0	0 0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	+	+	0	_	0	1	0	0	0	0	0	0
#19 MIDE		2	14	14	9	01	1	ı	_	13	13	2	- 6	I	0	12	12	4	∞	ı	1
CRT Driver	KA2150P	rols:P3) (Part3)																		
Ż	ame FUNCTION	SN	SNNR=0	SNN	SNNR=1	SNNR=2	=2	SNNR=3	=3												
			0		0	0		0													
#3 VMCR			٥	†	Ţ.	+2	+	ę c													
#10 FILV			0	Ì	7 0	7 0		٥													
				Ĭ			+														
#14 CT.V			0	Ĺ		C		c													
			0	Ĭ	0	0	l	0													
									1												
CRT Driver	CRT Driver CXA2150P-4 (Picture Controls:P4)	rols:P4)																			
Reg.No & Name		FUNCTION	NOI				Viv	Vivid	Standard	lard	Movie	e e	Pro	П							
0 UPIC							9	63	44		31		31								
╗	1						2	26	31		31		31	J							
							60		31		31		31								
3 UHUE	T						3	31	31	1	31	1	31								
- 1	T	2.0	6				20	32	04	1	31	+	31	T							
_	Color Temperature (0: Warm 1::Neutral 2: Color)	veurai 2:0	201)					7 (- c	Ì		t	- 0								
a conce	Ì							,	7				0	$\frac{1}{2}$		Г					
							UHE/VH	UHF/VHF V1-4	YCbCr480i	\vdash	YCbCr480P	\vdash	YCbCr1080i	i0	P&P	1					
7 AXIS	COL AXIS: color matrix setting							0	0	+	0	-	0		0						
										Pic	Picture Mode Vivid	le Vivid				1					
							UHF/VHF V1-4	F V1-4	YCbCr480i	480i	YCbCr480P	Н	YCbCr1080i	0i	P&P						
		tput GAMM	(A correc	tion settin	bū		,,	2	4		4		5		5						
9 AGAM	1 GAMMA/GAMMA L (AV Pro user control) - Void Data	user control	l - Void I	Data			1							ŀ							
							NGA	UGAM-0	UGAM-1	M-1	UGAM-2	1-2	UGAM-3	\dashv	UGAM-4	nc	UGAM-5	ng,	UGAM-6	UGAM-7	V-7
	Т						Ĭ	0	0	†	0	+	0	+	0		0		0	0	
11 GCC0	T							0	0	1	0	+	0	1	0		0		0	0	
12 GHUO	Offset for UHUE							0	0		0	-	0		0		0		0	0	
_										Y.	Picture Mode Vivid	le Vivid		-		_					
_									200	.00	1000	- 400	2001	-	40.4	Г					

Note: Full : 4:3 Vcomp1 : 480µ/960i, 16:9 Vcomp2 : 1080i, 16:9

26 DATA Display of vertical compression modes. Can not change this data.

SUB CONTRAST: SUB PICTURE

						P&P			0	Г	P&P			c
					0.	3PCr F	1080i		0	o.	3bCr F	1080i		0
					Picture Mode: Pro	YCbCr YCbCr YCbCr	480P 10		0	Picture Mode: Pro	UHF YCbCr YCbCr YCbCr	480P 10		0
					icture M	cr YC	480i 48			icture M	Cr YC	480i 48		ŀ
					Ь			4	0	П	F YCb		4	0
						UHF	VHF	V1_4	0	_	<u> </u>	VHF	V1 _ 4	0
						- P&P			0		- P&P			0
					Movie	YCbCr	1080i		0	Movie	YCbC	1080i		0
					Picture Mode: Movie	YCbCr	480P		0	Picture Mode: Movie	YCbCr	480P		O
					Picture	YCbCr YCbCr YCbCr	480i		0	Picture	UHF YCbCr YCbCr YCbCr P&P	480i		O
						UHF	VHF	V1_4	0		UHF	VHF	V1_4	,
						P&P			1		P&P			,,
		SNNR	=3	4	ndard		1080i		1	ndard	/CbCr	10801		۲
		SNNR SNNR SNNR	=2	3	Picture Mode: Standard	YCbCr YCbCr YCbCr	480P		2	Picture Mode: Standard	UHF YCbCr YCbCr YCbCr	480P		۲
		NNR S	=	1	icture M	CbCr Y	480i		2	icture M	CbCr Y	480i		٤
4		NNR S	0=	0	Ь	UHF Y	VHF	V1 _ 4	2	Ь	THF Y	VHF	V1_4	2
rols: P	Γ	S				<u> </u>	_	>			-	_	>	
e Con	z													
Pictur	FUNCTION													
₹ 4 0	FUI													
XA215														
CRT Driver CXA2150P-4 (Picture Controls:P4)	Reg.No & Name			USHP					UGAM					II K
Z DE	& oN.g	_		#4 US					DO 8#					#13 TIRLK
Ü	ž			**-					ŧ					#

Tab	Driver C	CPT Driver CX 4 2150D-1 (Deflection Controls: D1)		4:3	
CIVI	Takir C	XAZIJUD-1 (Denection Controls.D1)		C**L	
Reg. N	Reg.No & Name	FUNCTION	Full	Vcomp1	Vcomp2
0	VPOS	V POSITION: Vertical position (V DRV signal DC bias)		ADJ (31)	
-	ASIZ	V SIZE: Vertical size (V DRV signal gain)		ADJ (50)	
2	OZSA	V SIZE OFFSET		0	
3	VLIN	V LINEARITY: Vertical linearity		5	
4	VSCO	S CORRECTION: Vertical S-correction		∞	
2	VCEN	VSAW0 DCH/VSAW0 DCL: Vertical center adjustment		31	
9	NIdA	VSAW0 AMP: Vertical PIN adjustment	15	15	2
7	NSCO	VSAW1 DC: Rotation		7	
×	HTPZ	VSAW1 AMP: Horizontal trapezoid		15	
6	ZOOM	ZOOM SW; Zoom switch	0	0	
10	APSW	ASP SW: Aspect switch	0	1	0
=	ASPT	V ASPECT: Aspectratio	44	32	28
12	SCRL	V SCROLL: Vertical scroll	29	29	29
13	UVLN	UP VLIN: Upper vertical linearty	0	0	
14	LVLN	LO VLIN: lower vertical linearty	0	0	
RT	Driver C2	CRT Driver CXA2150D-2 (Deflection Controls:D2)			
reg.N	Reg.No & Name	FUNCTION	Full	Vcomp1	Vcomp2
0	HCNT	HC PARA DC: Horizontal center	19	19	6
-	HPOS	H POSTION: Horizontal position		25	
2	HSIZ	H SIZE: Horisontal size		ADJ (30)	
33	SLIN	MP PARA DC: Horizontal S-correction		ю	
4	MPIN	MP PARA AMP: Horizontal middle pin		7	
2	PIN	PIN AMP: Horizontal pin		10	
9	PIN0			7	
7	UCP	UP CPIN: Upper corner pin		31	
∞	LCP	LO CPIN: Lower corner pin		31	
6	DXCG	UP UCG: Upper extra corner pin gain		0	
10	TXCG	LO UCG: Lower extra corner pin gain		0	
Ξ	UXCP	UP UCP: Upper extra corner pin position		2	
12	LXCP	LO UCP: Lower extra corner pin position		2	
13	XCPP	UC POL: Extra comer pin polarity		0	
14	PPHA	PIN PHASE. Pin phase		31	
15	VANG	AFC ANGLE: AFC angle		31	
16	LANG	HC PARA PHASE: Linearity angle	31	33	3
17	VBOW	AFC BOW: AFC bow		31	
18	LBOW	HC PARA AMP: Linearity bow	39	63	3
19	CPY1	Copy function 1: (Set CPY1=1, then press MUTE+Enter) * Not used		0	

_	1	9	_
_	- 1	J	_

0 HBLK 1 LBLK 2 RBLK 3 VBLK 4 TBLK 6 VCMP 6 VCMP 7 HCMP 9 ACMP 9 ACMP	HBIK SW. Horizontal blanking switch LEFT BIK! Left blanking RIGHT BIK: Right blanking VBIK SW: Vertical blanking switch UP BIK. To blanking 10 PIK R. Percent blanking to blanking			
LBLK RBLK VBLK TBLK BBLK VCMP HCMP ACMP PCMP ACMP	LEFT BLK. Let blanking RIGHT BLK. Right blanking VBLK SW. Verteal blanking VIP BLK. Toblanking Of DIV. Receive blanking		1	
RBLK VBLK TBLK BBLK VCMP HCMP ACMP PCMP ACMP	RIGHT BLK: Right blanking VBLK SW: Vertical blanking switch UP BLK: Obblanking 10 DR.V. Bottoms kinding		56	99
VBLK TBLK BBLK VCMP HCMP ACMP ACMP ACMP	VBLK SW. Vertical blanking switch UP BLK? Top blanking UP BLK? Det v. De		25	25
TBLK BBLK VCMP HCMP ACMP PCMP ACMP	UP BLK: Top blanking	1		
BBLK VCMP HCMP ACMP PCMP AFCM	I O BIV: Bostom blombing	15	14	12
VCMP HCMP ACMP PCMP AFCM	LO BLAN: BORROLL DISTINUIS	15	15	13
HCMP ACMP PCMP AFCM	V COMP: Vertical compensation	0	3	3
ACMP PCMP AFCM	H COMP: Horizontal compensation	0		0
PCMP AFCM	AFC COMP: AFC compensation	0		0
Н	PIN COMP: Pin compensation	0		0
	AFC MODE: AFC compensation		3	2
11 VFRQ	V FREQ: Vertical frequency		-1	
12 VON	V ON: Vertical drive on		1	
13 JUMP	JMP SW: Reference pulse jump switch	0		1
14 VDJP	VDRV SW: Vertical drive switch	1	1	1
TSQV 21	RST SW: Vertical drive start switch	0	0	0
16 EWDC	EW DC: Pin DC level shift	0		0
17 AKBT	AKBTIM: AKB timing	6	6	6

Com	ponent I/F	Component I/F & Sync Separation CXA2151				
Reg.	Reg.No & Name	FUNCTION	480i	480P	1080i	720P
			15.75khz	31.50khz	33.75khz	45khz
0	MTRX	MATOUT	0	0	1	1
1	GAIN	GAIN SEL	0			
2	CBGN	CBGAIN	6			
3	VTC	V TC	1			
4	HWID	HIDIMH	-			
			Video5	Video6	Sub	
2	HSEP	HSEP SEL	0	0	0	
9	TEST	TEST	0			
7	FRGB		0			
			Full	Vcomp1	Vcomp2	
8	HMSK	Hsync masking in vertical retrace	1		0	

Z.S	Reg.No & Name	NOLLONI	43", 53"	.19
0	SVOL	Volume: Offset for Volume	0	0
_	SBAL	Balance Offset for Balance	7	7
7	SBAS	Bass: Offset for Bass	7	11
	STRE	Treble: Offset for Treble	7	9
4	BBLP	BBE low pass filter	0	0
2	BBHP	BBE high pass filter	2	2
9	SREF	Surround effect	11	11
7	AGC	Auto gain control	0	0
∞	BBE	BBE on/off	0	0

S.S	o & Name	FUNCTION	
_	TSMD	Trusurround effect selection	2
0	ATT		0

Reg.N	MID-1 (Display Reg. No & Name	MID-1 (Display Data : Output) Reg. No & Name FUNCTION				
	(A) Displa	(A) Display Data (Only One)	(for 4:3)			
0	DHPH	H active display area phase	110			
1	DVPH	V active display area phase	20			
2	DHAR	H active display area size	240			
3	DVAR	V active display area size	135			
4	DHPW	display H pulse width	55			
2	DVPW	display V pulse width	5			
22	DPSW	display PLL switch	1 (fixed)			
23	MDL	model select (16:9/4:3)	1			
	(B) Misc. ((B) Misc. Common Data	Data			
9	DYCD	display output Y-C delay correction	2			
7	DYSD	display output YS signal delay select	1			
	(C) Favorite / Other	e / Other	Favorite	Others		
∞ :	MDHP	main display picture H position	6	0		
10	MDHS	main display picture H size	160	240		
	(D) Single	(D) Single (Input Signal Format) / Favorite	Single 480i/480P	Single 720P	Favorite	
6	MDVP	main display picture V position	30	30	27	
Ξ	MDVS	main display picture V size	120	120	81	
	(E) Index / Others	Others	Index	Others		
12	MLHP	multi picture mode H position	32	36		
13	MLVP	multi picture mode V position	47	31		
	(F) Favorite	e	Favorite			
14	SDHS	sub display picture H position	171			
15	SDAS		27			
	(G) Favorite		Favorite			
16	SDHS	sub display picture H size	59			
17	SDAS	sub display picture V size	29			
	(H) PinP P.	(H) PinP Position (Not Used)				
18	PDHP	(PinP Large mode H position)	1			
19	PDVS	PDVS (PinP Large mode V position)	1			
	(I) PinP Si;	se (Not Used)				
20	PDHS	(PinP Large mode H size)	1			
21	PDVS	(PinP Large mode V size)	1			
	(J) Single / Others	Others	Single	Others		
24	BCOL	Background Y level	0	5		
	-2 (Active	MID-2 (Active Data for DRC : INPITE))				
Reg	No & Name	HINCIJON				
0	(A) MID N	(A) MID Mode, Wide mode, Input Signal Format	Single	gle		
			RF, Video, YC	YPbPr		
0	DRHP	DRCH active area position	111	110		
1	DRHS	DRC H active area size	178	178		
2	DRVP	DRC V active area position	37	37		
3	DRVS	DRC V active area size	120	120		
			Twin, Favorite		Memo	
d	41.44	The state of the s	RF, Video, YC	YPbPr	RF, Video, YC	YPbPr
0 -	DRHP	DRC H active area position	132	131	142	141
- (UKHO	DRC H active area size	100	160	102	201
7 0	DKVP	DRC v active area position	4C	40	90	80
9	DRVS	DRC V active area size	211	1112	011	011
			RF. Video. YC	YPbPr	RF. Video. YC	IIIUCA-SIIIII
0	DRHP	DRCH active area position	139	138	138	143
-	DRHS	DRCH active area size	164	164	166	162
·	PDIVE	AND W. Line	03	0.00	2.4	5.4

							Twin-Right	RF, Video, S-Video	197	215	26	56							Index-Small	RF	204	211	26	56		720P	0	40	3	0	146	0	ı
								YPbPr No Signal	179	199	24	56		YPbPr No Signal	179	199	24	26		YPbPr No Signal	166	187	24	26		1080i	0	40	3	0	160	0	1
		YPbPr No Signal	205	226	37	99	Iwin, Favorite	720P	111	66	20	168	Memo	720P	115	86	28	164	Index	720P	112	66	48	169		480P	0	70	3	0	119	4	1
	Single	720P	95	108	24	180	Twin, F	1080i	94	150	37	126	Me	1080i	102	147	44	123	puI	10801	66	149	34	128		RF, Video, S-Video, YPbPr 480i	(95	3	0		_	130
		480P	109	166	37	120		480P	128	155	53	112		480P	136	152	22	110		480P	132	154	51	113		RF, Video, S-Vi)	6)	-	-	113
MID-5 (Active Data for A/D (VDO): INPU I) Reg.No & Name FUNCTION	ode, Wide mode, Input Signa		VDO H active area position	VDO H active area pixel size	VDO V active area even position	VDO V active area line size			VDO H active area position	VDO H active area pixel size	VDO V active area even position	VDO V active area line size			VDO H active area position	VDO H active area pixel size	VDO V active area even position	VDO V active area line size			VDO H active area position	VDO H active area pixel size	VDO V active area even position	VDO V active area line size	(B) Input Signal Format		VDO V active area line size	VDO V active area odd position	VDO clamp pulse output timing	VDO clamp pulse width	VDO PLL phase ditect stop line count	VDO PLL phase ditect start line count	VDO H sync cycle
Reg.No & Name	(A) MID n		0 VDHP	1 VDHS	2 VDVE	3 VDVS			0 VDHP	1 VDHS	2 VDVE	3 VDVS			0 VDHP	1 VDHS	2 VDVE	3 VDVS			0 VDHP	1 VDHS	2 VDVE	3 VDVS	(B) Input		4 VDVO	5 VCPO	9 ACWD	7 VYCD		LLSA 6	10 VHSC

PMIATY Many Inspect Section select 0 1 <	MD-	5 (Picture	VIID-5 (Picture Data) (A) Enhance Table Data Setting								
MHLY Main I LIPP Coefficient select 1 1 1 1 1 1 1 1 1 1 1 MULY MHLY MHLY MAIN I LIPP COEfficient select 0		P-OP	Table select	0	1	2	3	4	5	9	7
MHICA MAINTY MAINTY </td <td>_</td> <td>MHLY</td> <td>Main H LPF Y Coefficient select</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td>	_	MHLY	Main H LPF Y Coefficient select	1	1	1	1	1	1	1	1
WALLY Main UP Per Coefficient select 0 0 0 0 0 MAYZ MAINY Main Hibbance V Coreing level 0 0 0 0 0 0 MAYZ MAINY Bander Planknee V Coreing level 0 0 0 0 0 0 0 0 MAYZ MAINT Main Hibanee V Coreing level 1 <td< td=""><td></td><td>MHLC</td><td>Main H LPF C Coefficient select</td><td>3</td><td>3</td><td>3</td><td>3</td><td>3</td><td>3</td><td>3</td><td>33</td></td<>		MHLC	Main H LPF C Coefficient select	3	3	3	3	3	3	3	33
MHYC Main Helbance, Corning level 0 0 0 0 0 MHYL Main Helbance, Corning level 1 1 1 1 0 0 MHYL Main Helbance, Corning level 1 1 1 1 1 1 MHYD Main Helbance, Corning level 1 1 1 1 1 1 MHCS Main Helbance, Corning level 0	3	MVLY	Main V LPF Y Coefficient select	0	0	0	0	0	0	0	0
MHYR Main H Elbance V Gorleig beel 0 0 1 1 1 0 0 MHYE Main H Elbance V Colfrigent select 1 1 1 1 1 1 MHYE Main H Elbance V Colfrigent select 0 0 0 0 0 0 MHCD Main H Elbance C Clip level 1 1 1 1 1 1 1 MHCD Main H Elbance C Clip level 1	ı	MVLC	Main V LPF C Coefficient select	0	0	0	0	0	0	0	0
MHYL Main H Enhance V Clip (seed 1 1 1 1 1 1 MHYO Main H Enhance V Clop (seed select 1 7 7 3 3 7 7 MHYO Main H Enhance C Clop (seed select 1 1 1 1 1 1 MHCL Main H Enhance C Clop (seed select 0 0 0 0 0 0 MHYC Main H Enhance C Clop (seed select 0	5	MHYR	Main H Enhance. Y Coreing level	0	0	1	1	0	0	0	1
MHYVE Main H Enhance, Coefficient select 1		MHYL	Main H Enhance. Y Clip level	1	1	1	1	1	1	1	1
MHYO Main H Enhance, Coording level 1 1 1 1 1 MHCR Main H Enhance, Coording level 1 1 1 1 1 1 1 MHCD Main H Enhance, Couping level 1 1 1 1 1 1 1 MHCD Main H Enhance, Couping level 0 0 0 0 0 0 0 MVYE Main V Enhance, Couping level 1 <td>7</td> <td>MHYE</td> <td>Main H Enhance. Y Enhancement level</td> <td>7</td> <td>7</td> <td>3</td> <td>3</td> <td>7</td> <td>7</td> <td>3</td> <td>S</td>	7	MHYE	Main H Enhance. Y Enhancement level	7	7	3	3	7	7	3	S
MHCR Main H Enhance, C Croening level 0 0 0 0 0 MHCL Main H Enhance, C Croening level 1 1 1 1 1 MHCD Main H Enhance, C Coefficient select 0 0 0 0 0 MVYD Main H Enhance, C Coefficient select 1 1 1 1 1 MVYD Main W Enhance, Y Enhancement level 0 0 0 0 0 MVYD Main W Enhance, C Toefficient select 0 0 0 0 0 MVCD Main W Enhance, C Coefficient select 0 0 0 0 0 MVCD Main W Enhance, C Coefficient select 0 0 0 0 0 MVCD Main W Enhance, C Coefficient select 0 0 0 0 0 MVCD Main W Enhance, C Coefficient select 0 0 0 0 0 MVCD Main W Enhance, C Coefficient select 0 0 0 <td< td=""><td>П</td><td>MHYO</td><td>Main H Enhance. Y Coefficient select</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td></td<>	П	MHYO	Main H Enhance. Y Coefficient select	1	1	1	1	1	1	1	1
MHCL Main H Enhance. Culp tevel 1 1 1 1 1 MHCE Main H Enhance. Culp tevel 0 0 0 0 0 0 MHVR Main V Enhance. Culp tevel 1 1 1 1 1 1 1 MVVL Main V Enhance. Culp tevel 0 0 2 2 0 0 MVVE Main V Enhance. V Gley tevel 0 0 0 0 0 0 0 MVCL Main V Enhance. Culp tevel 0 0 0 0 0 0 0 MVCL Main V Enhance. Culp tevel 0 0 0 0 0 0 0 MVCL Main V Enhance. Culp tevel 0		MHCR	Main H Enhance. C Coreing level	0	0	0	0	0	0	0	0
MHCE Main H Enhance C Cerlificant select 0 0 0 0 0 MHCO Marin H Enhance C Cerlificant select 1 1 1 1 1 MWYL Main V Enhance X Coreng Revel 1 1 1 1 1 MVYE Main V Enhance C Cerning level 0 0 0 0 0 0 MVYE Main V Enhance C Cerning level 0 0 0 0 0 0 MVCE Main V Enhance C Cerning level 0 0 0 0 0 0 MVCE Main V Enhance C Cerning level 0 0 0 0 0 0 MVCE Main V Enhance C Cerning level 0 0 0 0 0 0 MHLO Main H Enhance C Cerning level 0 0 0 0 0 0 MHTO Main H Enhance C Cerning level 0 0 0 0 0 0 0 MHTO <td< td=""><td></td><td>MHCL</td><td>Main H Enhance. C Clip level</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td></td<>		MHCL	Main H Enhance. C Clip level	1	1	1	1	1	1	1	1
MHCO Main H Bilanace, Coefficient select 1		MHCE	Main H Enhance. C Enhancement level	0	0	0	0	0	0	0	0
MVYR Main V Enhance, Y Coreing level 0 0 0 0 MVYL Main V Enhance, Y Coreing level 1 1 1 1 1 MVYCR Main V Enhance, C Clap level 0 0 0 0 0 0 MVCL Main V Enhance, C Clap level 0 0 0 0 0 0 0 MVCL Main V Enhance, C Clip level 0 <td></td> <td>MHCO</td> <td>Main H Enhance. C Coefficient select</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td>		MHCO	Main H Enhance. C Coefficient select	1	1	1	1	1	1	1	1
MAYL Main V Enhance. Y Gip keel 1 1 1 1 1 MAYR Main V Enhance. C Genging level 0 0 0 0 0 0 MYCR Main V Enhance. C Central geted 0 0 0 0 0 0 MYCE Main V Enhance. C Central geted 1 1 1 1 1 1 MAYC Main V Enhance. C Central geted 0 0 0 0 0 0 0 MAHLY Main H LPF C Central select 0 0 0 0 0 0 0 MAHLY Main H LPF C Central select 0 0 0 0 0 0 0 MAYL Main H Enhance. C Central select 0 0 0 0 0 0 0 MAYL Main H Enhance. C Tentral select 0 0 0 0 0 0 0 0 0 MAYR Main H Enhance. C Tentral select 1		MVYR	Main V Enhance. Y Coreing level	0	0	2	2	0	0	2	2
MVYER Main V Enhance. C Descript level 0 0 2 5 0 0 MVCR Main V Enhance. C Coreing level 0 0 0 0 0 0 MVCL Main V Enhance. C Coreing level 1 1 1 1 1 MVCD Main V Enhance. C Coreing level 0 0 0 0 0 MHC Table select 3 3 3 3 3 3 MHC Main H LDF V Coefficient select 0 0 0 0 0 0 MVLD Min H LDF V Coefficient select 0 0 0 0 0 0 MVLD Min H LDF Coefficient select 0 0 0 0 0 0 0 0 MVLD Min H LDF Coefficient select 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 <td></td> <td>MAYL</td> <td>Main V Enhance. Y Clip level</td> <td>-</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td>-1</td> <td>1</td> <td>1</td>		MAYL	Main V Enhance. Y Clip level	-	1	1	1	1	-1	1	1
MVCR Main V Enhance, C Coreng level 0 0 0 0 0 MVCL Main V Enhance, C Cip level 1 1 1 1 1 MVCL Main V Enhance, C Enhancement level 0 0 0 0 0 P-OP Table select 0 0 0 0 0 0 P-OP Table select 0 0 0 0 0 0 MAHAT Main H DF PC Coefficient select 3 3 3 3 3 MVLZ Main H DF PC Coefficient select 0 0 0 0 0 MVLZ Main H DF PC Coefficient select 0 0 0 0 0 MVLZ Main H DF PC Coefficient select 0 0 0 0 0 0 MHYL Main H Enhance Y Enhancement level 1 1 1 1 1 MHYR Main H Enhance Y Coeffigient select 1 1 1 <td></td> <td>MVYE</td> <td>Main V Enhance. Y Enhancement level</td> <td>0</td> <td>0</td> <td>2</td> <td>5</td> <td>0</td> <td>0</td> <td>2</td> <td>5</td>		MVYE	Main V Enhance. Y Enhancement level	0	0	2	5	0	0	2	5
MVCE Main V Enhance. C Clip feed 1 1 1 1 1 PAVE Main V Enhance. C Enhancement level 0 0 0 0 0 0 P-OP Table select 0 0 0 0 1 13 13 MHLX Main H LPF C Coefficient select 0		MVCR	Main V Enhance. C Coreing level	0	0	0	0	0	0	0	0
MVCE Main V Enhance, C Enhancement level 0 13 14		MVCL	Main V Enhance. C Clip level	1	1	1	1	1	1	1	1
P.O.P. Table select 8 9 10 11 12 13 M.H.Y. Main H. PFF V. Coefficient select 3		MVCE	Main V Enhance. C Enhancement level	0	0	0	0	0	0	0	0
MHLY Main H LPF Y Coefficient select 0 0 0 1 1 MHLC Main H LPF C Coefficient select 3 3 3 3 3 MVLC Main V LPF C Coefficient select 0 0 0 0 0 MVLC Main V LPF C Coefficient select 0 0 0 0 0 MVLC Main P Enhance C Coefficient select 1 1 1 1 1 MHYD Main H Enhance C Coefficient select 1 1 1 1 1 1 MHYD Main H Enhance C Coefficient select 1 1 1 1 1 1 MHYD Main H Enhance C Coefficient select 0 0 0 0 0 0 0 MHCE Main H Enhance C Coefficient select 1 1 1 1 1 1 1 1 MHCE Main H Enhance C Coefficient select 0 0 0 0 0 0 0		P-OP	Table select	8	6	10	11	12	13	14	15
MHLC Main H LPF C Coefficient select 3 3 3 3 MVLY Main V Ehrace Voorficient select 0	_	MHLY	Main H LPF Y Coefficient select	0	0	0	0	1	1	1	1
MVLY Main V LPF Y Coefficient select 0 0 0 0 0 MVLC Main V LPF Coefficient select 0 0 0 0 0 0 0 MHYL Minh H Enhance, V Coefficient select 0 0 0 0 0 0 0 MHYL Minh H Enhance, V Coefficient select 1<	2	MHLC	Main H LPF C Coefficient select	3	3	3	3	3	3	3	3
MAYLE Main V LIPE Coerficient select 0 0 0 0 0 MAYLR Main He Brances V Coreing keel 0 0 0 0 0 MAYLR Main He Brances V Coreing keel 1 1 1 1 1 MHYO Main He Brances V Coreing keel 0 0 0 0 0 MHYO Main He Brances C Coreing keel 0 0 0 0 0 MHCE Main He Brances C Coreing keel 1 1 1 1 1 MHXC Main He Brances C Coreing keel 0 0 0 0 0 MHXC Main He Brances C Coreing keel 1 1 1 1 1 MHXC Main He Brances C Corrigit keel 0 0 0 0 0 0 MAYPR Main V Brances C Corrigit keel 0 0 0 0 0 0 MAYPR Main V Brances C Coreing keel 0 0 0 0	3	MVLY	Main V LPF Y Coefficient select	0	0	0	0	0	0	0	0
MHYR Main H Enhance, Y Corenig keel 0 0 0 0 0 MHYL Main H Enhance, Y Corenig keel 1 1 1 1 1 1 1 MHYO Main H Enhance, C Corenig keel 1 MANA Main Well Enhance, Coefficient select		MVLC	Main V LPF C Coefficient select	0	0	0	0	0	0	0	0
MHYL Main H Enhance. Y City [see] 1 1 1 1 MHYD Main H Enhance. Y City [see] 7 7 3 5 7 MHYO Main H Enhance. Cyclificate select 1 1 1 1 1 MHCR Main H Enhance. Cyclificate select 0 0 0 0 0 MHCD Main H Enhance. Cyclificate select 1 1 1 1 1 MHCD Main H Enhance. Cyclificate select 0 0 0 0 0 MHCD Main H Enhance. Cyclificate select 1 1 1 1 1 MHCD Main H Enhance. Cyclificate select 0 0 0 0 0 0 MVXP Main V Enhance. Cyclificate select 1 1 1 1 1 1 MVXP Main V Enhance. Cyclificate select 0 0 0 0 0 0 0 MVXP Main V Enhance. Cyclificate select 0 0 <td>5</td> <td>MHYR</td> <td>Main H Enhance. Y Coreing level</td> <td>0</td> <td>0</td> <td>0</td> <td>1</td> <td>0</td> <td>0</td> <td>0</td> <td>1</td>	5	MHYR	Main H Enhance. Y Coreing level	0	0	0	1	0	0	0	1
MHYPE Main H Enhance Y Enhancement level 7 7 3 5 7 MHCR Main H Enhance X Coefficient select 1 1 1 1 1 1 MHCR Main H Enhance C Coreng Jevel 0 0 0 0 0 0 0 MHCG Main H Enhance C City Jevel 1 MAYE Main V Enhance X Corening level		MHYL	Main H Enhance. Y Clip level	1	1	1	1	1	1	1	1
MHYO Main H Ehlanace. Coforeiglieren select 1	7	MHYE	Main H Enhance. Y Enhancement level	7	<i>L</i>	3	5	7	7	3	3
MHCR Main H Enhance. C Coreing level 0 0 0 0 MACL Main H Enhance. C Cine [red] 1 1 1 1 1 MHCD Main H Enhance. C Cine [frictent select 0 0 0 0 0 0 MHCD Main H Enhance. C Coefficient select 1 1 1 1 1 1 1 MWYR Main V Enhance. C Coering [seel 0 0 2 2 0 0 MVXE Main V Enhance. Y Clip Evel 0 0 0 2 5 0 MVXE Main V Enhance. C Coreing [seel 0 0 0 0 0 0 MVCE Main V Enhance. C Cine [seel 1 1 1 1 1 MVCE Main V Enhance. C Cine [seel 0 0 0 0 0		MHYO	Main H Enhance. Y Coefficient select	1	1	1	1	1	1	1	1
MHCC. Main H Enhance, C City [evel 1 1 1 1 MHCD. Main H Enhance, C City [evel 0 0 0 0 0 MHCD. Main H Enhance, C Coefficient select 1 1 1 1 1 MVYR Main V Enhance, C Coefficient select 0 0 2 2 0 MVXP Main V Enhance, Y Cope [evel 0 0 0 2 5 0 MVXP Main V Enhance, C Coefficient level 0 0 0 0 0 0 MVCE Main V Enhance, C City [evel 1 1 1 1 1 MVCE Main V Enhance, C Coefficient 0 0 0 0 0 0		MHCR	Main H Enhance. C Coreing level	0	0	0	0	0	0	0	0
MHCE Main H Ehbaroe. C Enhancement level 0 0 0 0 MHCO Main H Ehbaroe. C Coefficient select 1 1 1 1 1 MVYB Main V Ehbaroe. Y Coefficient select 0 0 2 2 0 MVYB Main V Ehbaroe. Y Coefficient select 1 1 1 1 1 MVYB Main V Ehbaroe. Y Changelevel 0 0 2 5 0 MVCR Main V Ehbaroe. C Coepting level 0 0 0 0 0 MVCE Main V Ehbaroe. C Citylevel 1 1 1 1 1 MVCE Main V Ehbaroe. C Citylevel 0 0 0 0 0		MHCL	Main H Enhance. C Clip level	1	1	1	1	1	1	1	1
MHCO Main H Enhance, C Coefficient select 1		MHCE	Main H Enhance. C Enhancement level	0	0	0	0	0	0	0	0
MAYPR Main V Enhance. Y Corveng level 0 2 2 0 MAVYL Main V Enhance. Y Corveng level 1 1 1 1 1 1 MAYE Main V Enhance. Y Chip keel 0 0 2 5 0 MYCR Main V Enhance. Coveng level 0 0 0 0 0 MVCL Main V Enhance. Citylevel 1 1 1 1 1 MVCE Main V Enhance. Citylevel 0 0 0 0 0 0		MHCO	Main H Enhance. C Coefficient select	1	1	1	1	1	1	1	1
MVYL Main V Enhance, Y Clip, kevel 1 <		MVYR	Main V Enhance. Y Coreing level	0	0	2	2	0	0	2	2
MVYE Main V Enhance Y Enhancement level 0 0 2 5 0 MVCR Main V Enhance C Corening level 0 0 0 0 0 MVCL Main V Enhance C Chip level 1 1 1 1 1 MVCF Main V Enhance C Enhancement level 0 0 0 0 0		MAYL	Main V Enhance. Y Clip level	1	1	1	1	1	1	1	1
MVCR Main V Enhance C Coreng level 0 0 0 0 MVCL Main V Enhance C Cip level 1 1 1 1 1 MVCB Main V Enhance C Enhancement level 0 0 0 0 0		MVYE	Main V Enhance. Y Enhancement level	0	0	2	5	0	0	2	5
MVCL Main V Enhance. C Clip level 1 1 1 1 MVCE Main V Enhance. C Enhancement level 0 0 0 0 0		MVCR	Main V Enhance. C Coreing level	0	0	0	0	0	0	0	0
MVCE Main V Enhance. C Enhancement level 0 0 0 0 0 0 0		MVCL	Main V Enhance. C Clip level	1	1	1	1	1	1	1	1
		MVCE	Main V Enhance. C Enhancement level	0	0	0	0	0	0	0	0

* No. 19 - No. 36 data is all "0" not to

	den naar	Justicen Display (OSD)		
Reg.N	Reg.No & Name	FUNCTION		
0	HPOS	OSD horizontal position	14	
1	HPOF	Horizontal position for Favorite mode	37	
2	VPOS	OSD vertical position	4	
3	VPOT	Vertical position for P&P (Twin) mode	40	

					and the state of t	Sivink data is used for the (-) offset setting.	The state of the s	Siniak data is used for the direct setting.	Γ				CNIND date is used from the Charles	Sinitals data is used for the (-) on set setting.				7	SNNR data is used for the (+) offset setting.
	3		127 -255		3	3	0	1	1	0	3	0	4	3	0	0	0	0	3
	2		63 -126		2	2	0	1	1	0	2	0	3	2	0	0	0	0	2
	1		31 -62		1	1	0	1	1	0	1	0	1	1	0	0	0	0	1
	0	0	0 - 30	WSL Data	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
FUNCTION	SNNR data setting	Selection of SNNR data setting	Noise level detection data thresholds for SNNR data (read data)	SNNR Settings based on WSL Data	2/3	Related to 3D-COMB (upD64802) / #19 YPFG settings	Related to 3D-COMB (upD64802) / #18 YPFT settings	Related to 3D-COMB (upD64802) / #20 VHCO settings	Related to 3D-COMB (upD64802) / #21 VHCG settings	Related to 3D-COMB (upD64802) / #16 VAPG settings	Related to CXA2103 / #6 SHAP settings	Related to CXA2150P-3 / #19 MIDE settings	Related to CXA2150P-4 / #4 USHP settings	Related to CXA2150P-3 / #10 F1LV settings	Related to CXA2150P-3 / #11 CDSP settings	Related to CXA2150P-3 / #12 LTLV settings	Related to CXA2150P-3 / #14 CTLV settings	Related to CXA2150P-3 / #1 UVML settings	Related to CXA2150P-3 / #3 VMCR settings
Reg.No & Name	SNNR	SNFX	WSLT		SNNR=0/1/2/3	CPFG	CPFT	CCOR	CHCG	CAPG	3SHP	MIDD	SSHP	SYF1	SCDS	SLTI	SCП	SVML	SVMC
Keg.	0	-	2			3	4	2	9	7	∞	6	10	11	12	13	14	15	16

<u> </u>	ID-1 Detection		
Reg.N	Reg.No & Name	NOILONI	
0	XIGE	XJGLK: Setting for memorizing or not the ID-1 detection status	0
1	I'NJI	LNJI: Setting for the multi/single-line ID-1 detection	0
Close	d Caption	Closed Caption Display & Parental Control (CCD&VCHIP)	
Reg.N	Reg.No & Name	FUNCTION	
0	HPRM	Horizontal position of CCD (Main)	49
-	HPRS	Horizontal position of CCD (Sub)	49
2	RND	OSD rounding control	1
3	CCDI	Interruption control	3
4	CRIP	CRI count & parity count	4
5	CRIT	Charge/Discharge timing control for slice voltage level	0
9	CHMK	Horizontal mask width	42
7	FPOL	Field polarity selection	1
8	LANG		0
6	DATA	Swwitch for CCD service/test data	0
10	VCHIP	Selection of Vchip controls	1

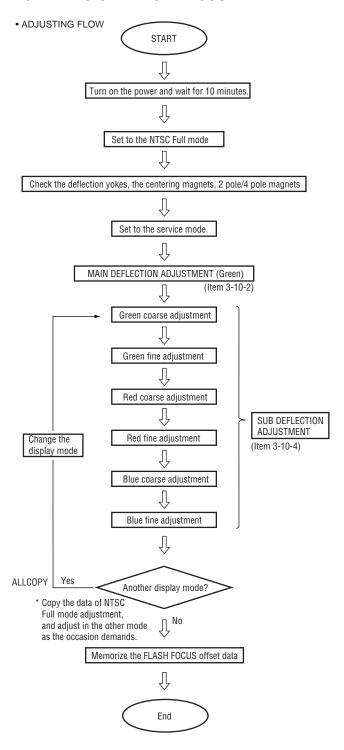
No &	Reg.No & Name	FUNCTION	
DLY1	K1	ower-On to RLY timing = DLY1 x 50ms	2
DLY2	K2	Power-On Mute timing = $DLY2 \times 50ms$	12
DLY3		Relay-On to start Bus communication	12
AGC	0		255
PCMX	ДX		63
BRMX	ΜX		63
RA	RAMW		0

ITEM	ITEM	Contents	min	max		init (4:3)	
No.	Name				Normal	Normal V.Comp	ŒН
0	FDIS	Switch of display for fine adjustment data	0	-		1	
1	COPY	Service copy adjustment	0	-		1	
2	ALCP	Service all copy adjustment	0	_		1	
3	OSDH	Osd horizontal position of PJED service menu	1	255		22	
4	AGSO	Osd vertical position of PJED service menu	1	255	100	100	100
5	FVSL	Start position of fine adjustment	0	15	0	-	-
9	FVSP	Start line of fine adjustment	0	255	3	25	73
7	VIDL	Value of V1 delay	0	255	-	-	-
8	VICU	Value of V1 count up	0	4095	424	337	292
6	VIOH	Value of VI offset upper data	0	255	2	134	185
10	VIOL	Value of V1 offset lower data	0	255	0	0	0
11	OEVP	Odd/Even select position	0	4095		1056	
12	COHP	Horizontal phase for rough adjustment	0	4095		0	
13	34CS	Start center clamp position of H3 and H4 pulse	0	31		14	
14	34CW	Width center clamp position of H3 and H4 pulse	0	31		0	
15	FIHP	Horizontal phase for fine adjustment	0	4095		1082	
16	TPHP	Horizontal phase for test pattern	0	4095		99	
17	TPVP	Vertical phase for test pattern	0	255	22	53	17
18	JHHD	Horizontal phase for dynamic focus	0	4095		270	
19	DFHG	Value of horizontal parabola wave for dynamic focus	-128	127	-65	-65	-65
20	DAAG	Value of vertical parabola wave for dynamic focus	-128	127	06-	06-	06-
21	DEDC	Value of center for dynamic focus	-128	127	127	127	127
22	DFV1	Value of V1 saw wave for dynamic focus	-128	127	05-	-20	05-
23	SDHP	Compensation of horizontal phase for shading	0	4095		444	
24	IHQS	Value of horizontal saw wave for dynamic focus	-128	127	63	127	127
25	RVCS	Start position of Red vertical clamp	0	31		0	
26	RVCW	Width of Red vertical clamp	0	31		0	
27	SDAD	Start position of Green vertical clamp	0	31		0	
28	GVCW	Width of Green vertical clamp	0	31		0	
50	BACS	Start position of Blue vertical clamp	0	31		0	
30	BVCW	Width of Blue vertical clamp	0	31		0	
31	RHCS	Start position of Red horizontal clamp	0	31		0	
32	RHCW	Width of Red horizontal clamp	0	31		0	

- COV	ADJ .	ADI :	ADJ	ADJ	ADJ		mp, HDs				
- MADJ -1001, -73 ADJ -1	ADJ 0, 0	ADJ x, 0	ADJ 0, 320	ADJ 0, x	ADJ 0, x		Note: 4:3 has Normal, V.Comp, HD s				
	511	511	511	511	511		Note: 4:3				
-217	-512	-512	-512	-512	-512						
SIZE	LIN	KEY	PIN	MLIN	ZISW						
00 SIZE	81	82	83	84	85						
	17		-65	06-	127	09-		127			
00	23	270	-65	06-	127	09-	444	127	0	0	0
	22		-65	06-	127	-20		63			
4033	255	4095	127	121	127	127	4095	127	31	31	18
0	0	0	-128	-128	-128	-128	0	-128	0	0	0

ITEM	ITEM	Contents	mim	max		init (4:3)	
Š.	Name				Normal	Normal V.Comp	∄
33	GHCS	Start position of Green horizontal clamp	0	31		0	
34	GHCW	Width of Green horizontal clamp	0	31		0	
32	BHCS	Start position of Blue horizontal clamp	0	31		0	
36	BHCW	Width of Blue horizontal clamp	0	31		0	
37	BDVU	Vartical positioni for boder line 1	0	2047	23	1	1
	BDVL	Vartical positioni for boder line 2	0	2047	506	935	1079
39	BDHL	Horizontal position for boder line 1	0	2047		148	
40	BDHR	Horizontal position for boder line 2	0	2047		1262	
14	HBLD	Horizontal phase for output of H.Blank out	0	4095		0	
42	HBLW	Width for output of H.Blank out	0	4095		0	
43	PWM2	PWM2 output width setting of Regi IC	0	4095	43:500	43:500 53:345 61:600	009:19
44	COGV	Green vertical center offset data for Auto Regi.	-128	127		1	
45	CORV	Red vertical center offset data for Auto Regi.	-128	127		1	
46	COBV	Blue vertical center offset data for Auto Regi.	-128	127		1	
47	COGH	Green horizontal center offset data for Auto Regi.	-128	127		1	
48	CORH	Red horizontal center offset data for Auto Regi.	-128	127		1	
46	COBH	Blue horizontal center offset data for Auto Regi.	-128	127		-	
20	SOGV	Green vertical skew offset data for Auto Regi.	-128	127		-	
	SORV	Red vertical skew offset data for Auto Regi.	-128	127		1	
52	SOBV	Blue vertical skew offset data for Auto Regi.	-128	127		-	
53	SOGH	Green horizontal skew offset data for Auto Regi.	-128	127		1	
	SORH	Red horizontal skew offset data for Auto Regi.	-128	127		1	
25	SOBH	Blue horizontal skew offset data for Auto Regi.	-128	127		1	
	ZOGH	Green horizontal size offset data for Auto Regi.	-128	127		-	
	ZORH	Red horizontal size offset data for Auto Regi.	-128	127		1	
28	ZOBH	Blue horizontal size offset data for Auto Regi.	-128	127		-	
П	LOGH	Green horizontal linearity offset data for Auto Regi.	-128	127		1	
09	LORH	Red horizontal linearity offset data for Auto Regi.	-128	127		1	
[]	ГОВН	Blue horizontal linearity offset data for Auto Regi.	-128	127		-	
62	ERR	Auto Regi. Error code	0	-		1	
93	ADTM	A/D data input timing of Auto Regi.	0	127	43:134	43:134 53:134 61:134	1:134
49	VUP	Auto Regi. Pattern Upper vertical position	0	2047	43:5(43:50 53:50 61:50	1:50
. 9	VUPM	Auto Regi. Pattern Upper middle vertical position	0	2047		0	
,							

3-11. REGISTRATION ADJUSTMENT

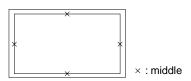


3-11-1. Setup for Adjustment

1. Marking

1) At the 4 insides of the screen, locate the middle. Use a tape measure to identify the middle.

2. Data Setting

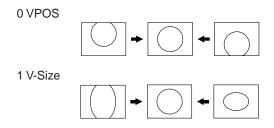


- 1) Set NTSC Full mode.
- 2) Enter the Service mode, and select "PJE".

3-11-2. Main Deflection Adjustment

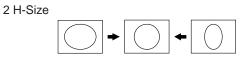
Note: Before this adjustment, input the data of PJE item No. 78-85, (See page 24).

- 1. Place the caps on the red and blue lenses so that only the green color is displayed.
- 2. Enter the monoscope signal and set to NTSC Full mode .
- 3. Enter the Service mode, and select "2150D-1".
- 4. Adjust "0 VPOS" and "1 VSIZ" so that the picture is displayed in the center of screen.



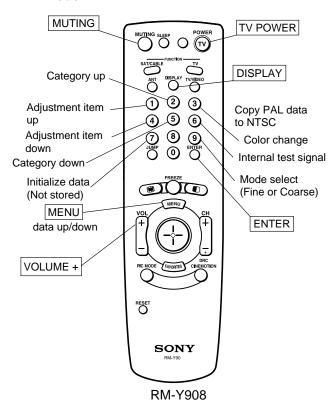
5. Select "2150D-2" and adjust "2 H-Size" so that the picture size is within the specification.

SPEC	Overscan Spec. = 9%			
Input Signal	H SIZE	V SIZE		
Monoscope	$15.6 \pm 0.2 \text{ sq}.$	11.5 ± 0.2 sq.		



6. Copy the dada of NTSC Full mode to the other display mode and adjust in the other mode as the occasion demands.

3-11-3. Operation Method for Projector Engine Mode



1. Functions of Keys on Commander

• ① : Changes adjustment item. (item No. moves up)

: Marker moves clockwise from center to outside. (in fine adjustment mode)

• 4 : Changes adjustment item. (item No. moves down)

: Marker moves counterclockwise from outside to center. (in fine adjustment mode)

• ② : Changes adjustment category. (category No. moves up)

• (5) : Changes adjustment category. (category No. moves down)

• Joystick: Changes data value. (up or down)

: Marker moves up, down, or to the left or right. (in fine adjustment mode)

• ③ : Changes adjustment color.

GRN → BLU → RED

• **6** : Displays or changes internal test signals.

: crosshatch + external signal → crosshatch +borderline → crosshatch only → dot only → off

• ⑨ : Switches adjustment mode.
 Coarse adjustment mode → fine adjustment mode

Press joy : Switches marker moving method.
 stick (in fine adjustment mode)
 joystick (A, V, ◄, ►) keys → ① and ④ buttons

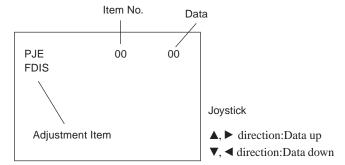
Commander Function

Buttons	Mode	Description
① + ENTER	READ	Writes data to NVM.
MUTING+ENTER	WRITE	Reads data from NVM.
7 + ENTER	PJE	Service data initialization. Not stored.
	INITIAL	(Be sure not to use usually)

2. Operation Method for Coarse Adjustment

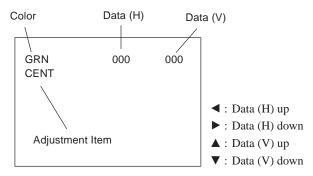
1) Enter the Service mode, and select "PJE".

 Press "①" or "②" button on the commander to select the item, and use the joystick to change the data.



 Select "GRN CENT" . When BLU or RED is displayed, press "③" button on the commander to change the adjustment color in the order of GRN → BLU → RED.

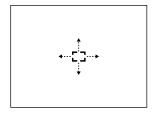
4) In the GRN, BLU, or RED mode,move ▲, ▼direction the joystick can change the data in vertical direction, or ◄, ► direction in horizontal direction.



 5) Before returning to the Service mode, press "MUTING" +"ENTER" buttons on the commander to write the data.
 (Omission of this operation causes the set data to be returned to the data before adjustment)

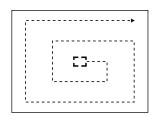
3. Operation Method for Fine Adjustment

- 1) Select the PJE mode.
- 2) Select FDIS so that the data at each position can be displayed in the fine adjustment mode, and set the data to "01".
- 3) Press "①" button on the commander, and the fine adjustment mode will be active where a green marker appears in the center of screen (in the case of GRN mode).
- 4) Press joystick, and the marker color will be switched between green (GRN mode) and white alternately.
- 5) Use "①" or "②" button on the commander, or the joystick to move the marker to the position to be adjusted, where fine adjustment can be made.
 - When marker color is white. (in this case, fine adjustment is disabled)



Operating the joystick can move the marker up, down, or to the left or right freely.

• When marker color is green. (GRN mode)



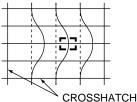
- ①: moves the marker clockwise from center to outside.
- 4 : moves the marker counterclockwise from outside to center.
 - Fine adjustment can be made on the basis of marker position using ▲, ▼, ◄, ► directiom of the joystick.

Move joystick ▲ direction



CROSSHATCH

Move joystick ► direction



Press "9" button on the commander to return to the coarse adjustment mode.

3-11-4. PJE Adjustment (Sub Deflection Adjustment)

Adjustment O: Yes -: No

	Ad	justment T	уре
Adjustment Item	GRN	RED	BLU
	H/V	H/V	H/V
CENT	0/0	0/0	0/0
SKEW	0/0	0/0	0/0
SIZE	0/0	0/0	0/0
LIN	0/0	0/0	0/0
KEY	-/0	-/0	-/0
PIN	0/0	0/0	0/0
MLIN	0/-	0/-	0/-
MSIZ	0/-	0/-	0/-

Note: If the value of over the limit value, adjust these in the fine adjustment.

Coarse Data Limit Valune.

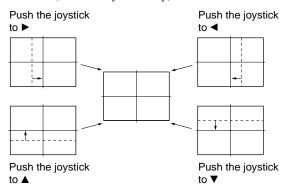
Cent H 35±170 V 20±170, Size H-75max, Lin H Blu -425min, H Red 425max.

<Adjustment for NTSC Full Mode>

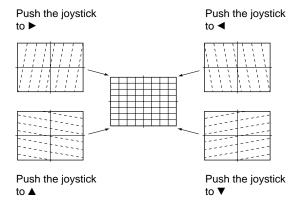
• The adjustment should be done in the numerical order given.

1. Green Adjustment

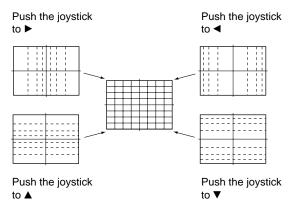
- 1) Place the caps on the red and blue lenses so that only the green color is displayed.
- 2) Enter the monoscope signal to set.
- 3) Select the PJE mode.
- 4) Press "⑥" button on the commander to display internal test signal (crosshatch).
- 5) Select "GRN CENT", and adjust so that the picture coincide in the center of screen.
- GRN CENT (horizontally/vertically)



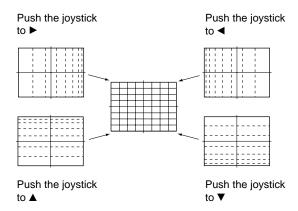
- Select "GRN SKEW", and correct the tilt of horizontal lines and vertical lines.
- GRN SKEW (horizontally/vertically)



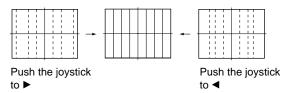
- 8) Select "GRN SIZE", and adjust so that each distance from center to left end and to right end is equal. Adjust so that each distance from center to top and to bottom is equal.
- GRN SIZE (horizontally/vertically)



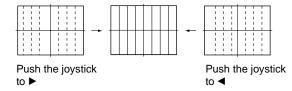
- 9) Select "GRN LIN", and adjust so that each space at the right end and at the left end of screen is equal. Adjust so that each space at the top and at the bottom of screen is equal.
- GRN LIN (horizontally/vertically)



- 10) Select "GRN MSIZ", and correct the space intervals for the horizontal section of the screen are equal.
- GRN MSIZ (horizontally)



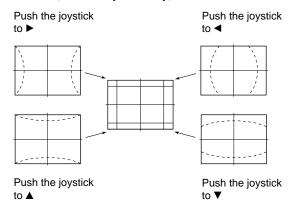
- 11) Select "GRN MLIN", and correct the sizes of the horizontal line at the center of the screen are symmetrical left and right.
- GRN MLIN (horizontally)



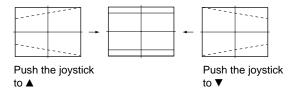
Note: The SIZE and LIN, MSIZ and MLIN adjustments are affected each other.

So adjust these mutually if necessary.

- 12) Select "GRN PIN", and adjust so that right and left vertical lines on the screen become straight. Adjust so that upper and lower horizontal lines on the screen become straight.
- GRN PIN (horizontally/vertically)



- 13) Select "GRN KEY", and adjust so that upper and lower horizontal lines on the screen become parallel.
- GRN KEY (vertically)



Note: The VPINand KEY adjustments are affected each other. So adjust these mutually if necessary.

- 14) Press "9" button on the commander to enter the fine adjustment mode.
- 15) Make fine adjustment so that horizontal lines and vertical lines become straight.
- 16) Press "9" button on the commander to return to the coarse adjustment mode.

2. Red Adjustment

- Place a cap on the blue lens so that green and red colors are displayed.
- 2) Press "3" button on the commander to select RED mode.
- Adjust the following items so that red lines overlap with green lines.
- RED CENT (horizontally/vertically)
- RED SKEW (horizontally/vertically)
- RED SIZE (horizontally/vertically)
- RED LIN (horizontally/vertically)
- RED MSIZ (horizontally)
- RED MLIN (horizontally)
- RED PIN (horizontally/vertically)
- RED KEY (vertically)
- Press "9" button on the commander to enter the fine adjustment mode.
- 5) Make fine adjustment so that horizontal lines and vertical lines overlap with green lines.
- 6) Press "9" button on the commander to return to the coarse adjustment mode.

3. Blue Adjustment

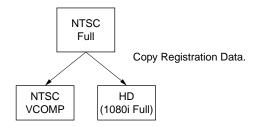
- 1) All colors are displayed.
- 2) Press "3" button on the commander to select BLU mode.
- 3) Hereinafter, use same manner as that of red adjustment to adjust so that the blue lines overlap with green and red lines.

4. Registration Data Writing

1) After each adjustment of green, blue, and red for the NTSC Full mode finished, press "MUTING"+ "ENTER" buttons on the commander to write registration data to the NVM.

<Copy All Registration Data to Other modes>

- 1. Make sure that the adjustment for NTSC Full mode finished and the data have already been written.
- 2. Select the PJE mode.
- 3. Select ALCP and set the data to "01", and press "MUTING"+"ENTER" buttons on the commander.
- 4. The data of NTSC Full mode are copied to all other modes.



Check in the other mode and adjust as the occasion demands.
 Be sure to write data in each mode.

3-12. AUTO CONVERGENCE OFFSET

This adjustment must be performed after the registration adjustment was made or after readjustment was made by any reason.

- 1. Darken the periphery of this set.
- 2. Enter the monoscope signal to set the NTSC Full mode.
- 3. Select the PJE mode.
- 4. Press "FLASH FOCUS" button on the front panel of the set. (The offset value is now automatically stored)
- Select "ERR" of PJE mode.
 Confirm ERR is "00". If ERR is not "00", recheck. (Refer to 3-12.)
- 6. Exit the service mode.

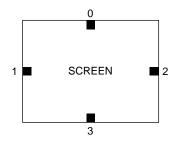
3-13. AUTO REGISTRATION ERROR CODE LIST

If an error code is displayed after the set has been fully adjusted, correctly, plese check the following items: position, tilt and sizing. If either of these adjustments are off, even slightli, the auto registration pattern will not hit the four sensors properly. This occurs when the internal generator patterns is being flashed on the screen for the sensor to read. Therefore, auto registration (called auto convergence) cannot operate properly causing an error code to be displayed. In order for this function to operate properly, correct position, tilt and size must be adjusted properly.

ERROR CODE LIST

ERROR CODE	DESCRIPTION	REMEDY
00	No Error	
10	Sensor 0 low output	Check sensor 0, connection/wiring, circuit, and pattern position (Is pattern over sensor ?) Adjust "64 VUP" if necessary.
11	Sensor 1 low output	Check sensor 1, connection/wiring, circuit, and pattern position (Is pattern over sensor ?) Adjust "69 HLB" if necessary.
12	Sensor 2 low output	Check sensor 2, connection/wiring, circuit, and pattern position (Is pattern over sensor ?) Adjust "73 HRIV" if necessary.
13	Sensor 3 low output	Check sensor 3, connection/wiring, circuit, and pattern position (Is pattern over sensor?) Adjust "68 VLOW" if necessary.
20	Sensor 0 high output	Check sensor 0 and circuit.
21	Sensor 1 high output	Check sensor 1 and circuit.
22	Sensor 2 high output	Check sensor 2 and circuit.
23	Sensor 3 high output	Check sensor 3 and circuit.
30	V CENT or SKEW adjustment loop overflow	Check "66 VMID" data and check registration condition.
31	H CENT or SKEW adjustment loop overflow	Check "71 HMID" data and check registration condition.
32	H LIN or SIZE adjustment loop overflow	Check "71 HMID" data and check registration condition.
40	V CENT regi data overflow	Check "66 VMID" data and confirm V CENT data (all mode) is not near 511.
41	H CENT regi data overflow	Check "71 HMID" data and confirm H CENT data (all mode) is not near 511.
42	V SKEW regi data overflow	Check "66 VMID" data and confirm V SKEW data (all mode) is not near 511.
43	H SKEW regi data overflow	Check "71 HMID" data and confirm H SKEW data (all mode) is not near 511.
44	H LIN regi data overflow	Check "71 HMID" data and confirm H CENT data (all mode) is not near 511.
45	H SIZE regi data overflow	Check "71 HMID" data and confirm H CENT data (all mode) is not near 511.
50	V CENT regi data overdrow	Check "66 VMID" data and confirm V CENT data (all mode) is not near -512.
51	H CENT regi data overdrow	Check "71 HMID" data and confirm H CENT data (all mode) is not near −512.
52	V SKEW regi data overdrow	Check "66 VMID" data and confirm V SKEW data (all mode) is not near -512.
53	H SKEW regi data overdrow	Check "71 HMID" data and confirm H SKEW data (all mode) is not near -512.
54	H LIN regi data overdrow	Check "71 HMID" data and confirm H CENT data (all mode) is not near -512.
55	H SIZE regi data overdrow	Check "71 HMID" data and confirm H CENT data (all mode) is not near –512.
60	H or V CENT offset overflow	Check "71 HMID" data and check "66 VMID" data.
61	H or V SKEW offset overflow	Check SKEW adjustment.
62	H SIZE or LIN offset overflow	Check "71 HMID" data, check "66 VMID" data and check SIZE and LIN adjustment.
70	H or V CENT offset overdrow	Check "71 HMID" data and check "66 VMID" data.
71	H or V SKEW offset overdrow	Check SKEW adjustment.
72	H SIZE or LIN offset overdrow	Check "69 HLB" data, check "73 HRIV" data and check SIZE and LIN adjustment.
80	SIZE limit error	Check that H SIZE is negative and not near zero.

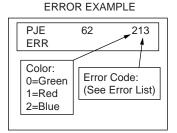
[SENSOR POSITION]



0 : UPPER SENSOR 1 : LEFT SENSOR 2 : RIGHT SENSOR 3 : LOWER SENSOR Error codes in normal (customer) mode are not displayed. You must enter PJED service mode to see to the error code.

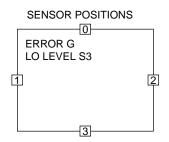
e to the error code.

AUTO REGI ERROR CODE FORMAT



Example: Blue low Level Sensor 3 0-Green

1-Red 2-Blue When executing flash focus in service mode, the error will be displayed in text format (see below).



SECTION 4

CIRCUIT ADJUSTMENTS

4-1. P & P SUB CONTRAST ADJUSTMENT (VIDEO) (SCON)

1. Receive the signal.

TV terminal (sub) : no signal VIDEO terminal (main) : color-bar signal

2. VIDEO MODE : Pro
PICTURE : maximum
COLOR : minimum
RGB Signal : off

- 3. Set to P & P mode, and set to service mode.
- 4. Connect an oscilloscope between pin 3 of CN703 (A board) and ground.
- 5. Select "2103-1-02", and adjust so that the waveform level of VR is 2.00 ± 0.05 Vp-p.
- 6. Select "2103-2-02", and adjust so that the waveform level of VR is 2.00 ± 0.05 Vp-p.
- 7. Write the data into memory.



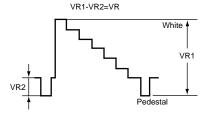


Fig. 4-1

4-2. P & P SUB CONTRAST ADJUSTMENT (RF) (SCON)

1. Receive the signal.

TV terminal (main) : color-bar signal
VIDEO terminal (sub) : no signal

2. VIDEO MODE : Pro
PICTURE : Max imum
COLOR : Min imum
RGB Signal : off

- 3. Set to P & P mode, and set to service mode.
- 4. Connect an oscilloscope between pin 3 of CN703 (A board) and ground.
- 5. Select "2103-1-02", and adjust so that the waveform level of VR is 2.00 ± 0.05 Vp-p.
- 6. Select "2103-2-02", and adjust so that the waveform level of VR is 2.00 ± 0.05 Vp-p.
- 7. Write the data into memory.



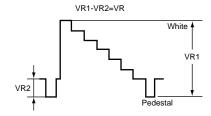


Fig. 4-1

4-3. P & P SUB-HUE AND SUB-COLOR ADJUSTMENT (SHUE, SCOL)

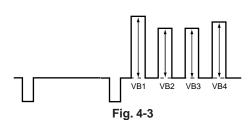
1. Receive the signal.

TV terminal (sub) : no signal
VIDEO terminal (main) : color-bar signal

2. VIDEO MODE : Pro
PICTURE : maximum
COLOR : center
HUE : +4 steps
Signal : off

- 3. Set to P & P mode, set to service mode.
- Connect an oscilloscope between pin 3 of CN702 (A board) connecter and ground.
- 5. Select "2103-1-03 SCOL, -04 SHUE", and adjust them to have VB1 \leq VB4 and VB2 \leq VB3 in the waveform levels.
- 6. Select "2103-2-03 SCOL, -04 SHUE", and adjust them to have VB1 \leq VB4 and VB2 \leq VB3 in the waveform levels.
- 7. Write the data into memory.

MUTING → ENTER



4-4. P & P SUB-HUE AND SUB-COLOR ADJUSTMENT (SHUE, SCOL)

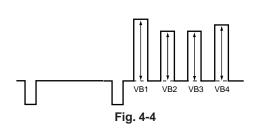
1. Receive the signal.

TV terminal (main) : color-bar signal
VIDEO terminal (sub) : no signal

2. VIDEO MODE : Pro
PICTURE : maximum
COLOR : center
HUE : +4 steps
Signal : off

- 3. Set to P & P mode, set to service mode.
- 4. Connect an oscilloscope between pin 3 of CN702 (A board) connecter and ground.
- 5. Select "2103-1-03 SCOL, -04 SHUE", and adjust them to have VB1 \leq VB4 and VB2 \leq VB3 in the waveform levels.
- 6. Select "2103-2-03 SCOL, -04 SHUE", and adjust them to have VB1 \leq VB4 and VB2 \leq VB3 in the waveform levels.
- 7. Write the data into memory.

MUTING → ENTER



SAFETY RELATED ADJUSTMENTS

[D BOARD]

5-1. HV REGULATION CIRCUIT CHECK AND ADJUSTMENT

When replacing the following components marked with \square on the schematic diagram always check HV regulation, and if necessary re-adjust.

■: VR8001

☑: C8079, C8083, C8090, C8129, D8013, D8015
D8038, D8043

IC8006

Q8021, R8055, R8099, R8102, R8128, R8129, R8131, R8139, R8140, R8142, R8153, R8163,

R8223, R8230

T8004 (LOT), T8005 (FBT)

HV block, D board

OPERATION CHECK

- 1. Receive the all white signal.
- 2. Set PIC MAX/BRT CENT.
- 3. Confirm that the voltage between CN8015 ① PIN and GND is less than 7.80VDC.

HV REGULATION ADJUSTMENT

- Connect a HV static voltmeter to the unconnected plug of the highvoltage block.
- 2. Power on the set.
- 3. Repeat steps 1 and 2 as above.
- 4. Confirm that the static voltmeter reading is 31.0 ± 0.4 V.
- 5. If not, adjust with VR8001 to the specified value.
- 6. After adjustment, put the VR cover on VR8001 as shown below and apply sufficient amount of epoxy resin around VR8001.

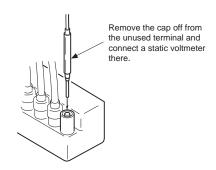


Fig. 4-1

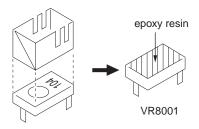


Fig. 4-2

5-2. HV HOLD DOWN CIRCUIT OPERATION CHECK AND ADJUSTMENT

When replacing the following components marked with \square on the schematic diagram always check hold-down voltage and if necessary re-adjust.

⊠: VR8002

☑: C8054, C8086, C8088, C8100, C8104,

C8118, C8123, C8124

D8019, D8020, D8022, D8028, D8036

FB8001

IC8008

Q8035, Q8038

R8035, R8043, R8159, R8166, R8171,

R8196, R8201

T8004 (LOT), T8005 (FBT)

HV block, D board

OPERATION CHECK

- 1. Receive the dot signal.
- 2. Set PIC MIN/BRT MIN.
- 3. Confirm that the voltage between cathode of D8038(JW171) and GND is more than 23.0V DC.
- Using an external DC Power supply, apply the voltage shown below between cathode of D8038(JW171) on "D" and GND, then confirm that the HV-Prot circuit works. (Raster disappears.)

Apply DC voltage: Less than 29.05V DC.

HV HOLD-DOWN ADJUSTMENT

- 1. Connect a HV static voltmeter to the unconnected plug of the high-voltage block.
- 2. Power on the set.
- 3. Connet an externel $10k\Omega$ VR at CN8015 and adjust this VR so that the high voltage is 34.50kV.
- 4. Adjust VR8002 to the point that the HV-Prot circuit works (Raster disappears) at 34.50 ± 0.50 kV reading on the static voltmeter.
- After adjustment, put the VR cover on VR8002 and apply sufficient amount of epoxy resin around VR8002 as the same manner for VR8001.

[G BOARD]

5-3. +B MAX VOLTAGE CONFIRMATION

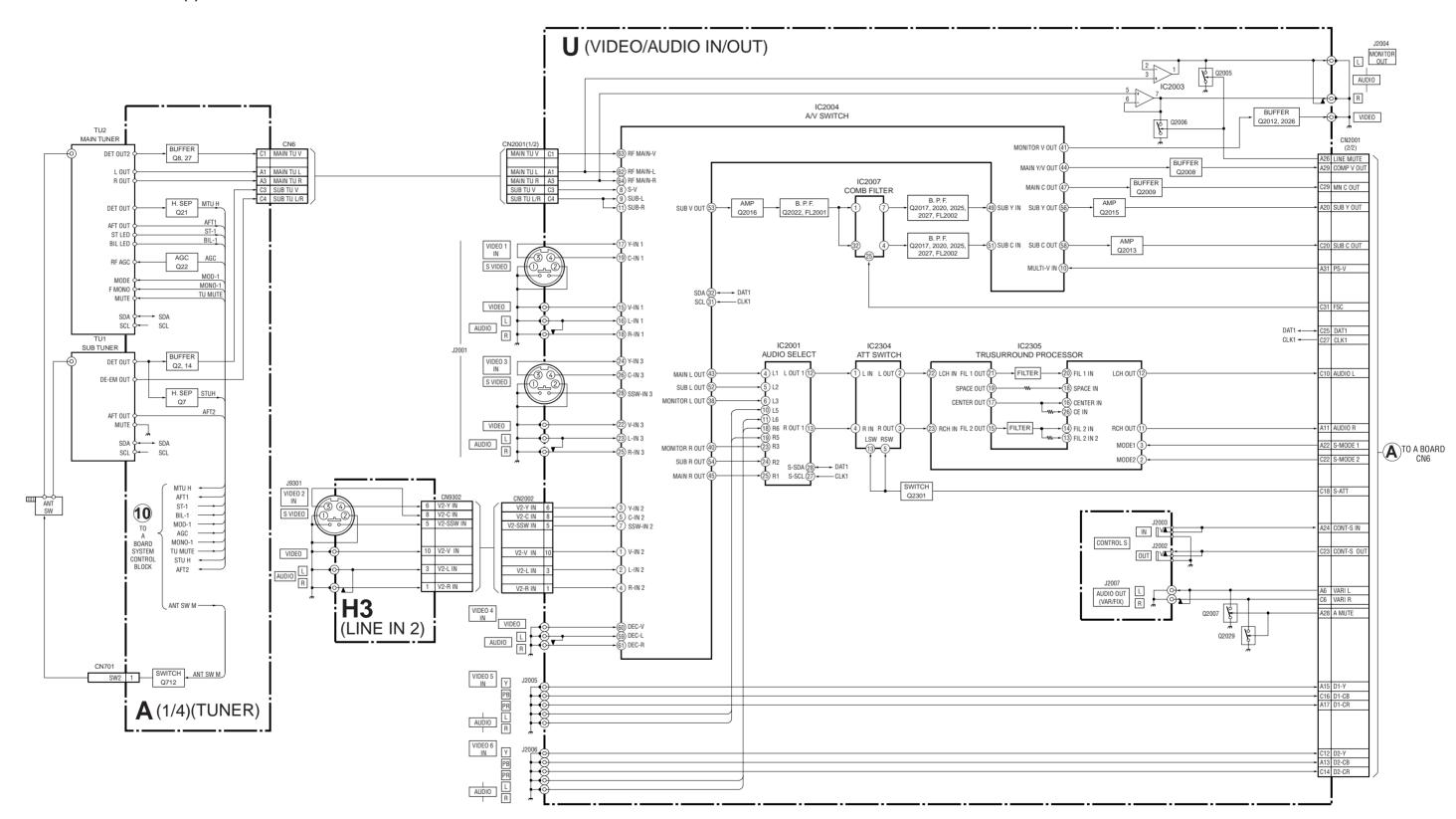
The following adjustments should always be performed when replacing IC501, R5032.

- 1. Supply 130VAC to variable autotransformer.
- 2. Receive dot signal pattern and set the PICTURE and BRIGHTNESS settings to their minimum.
- 3. Confirm the voltage of TP +B 135V is less than 137.0Vdc.
- $4. \ \ \,$ If step 4 not satisfied , replace IC501 and repeat above steps.

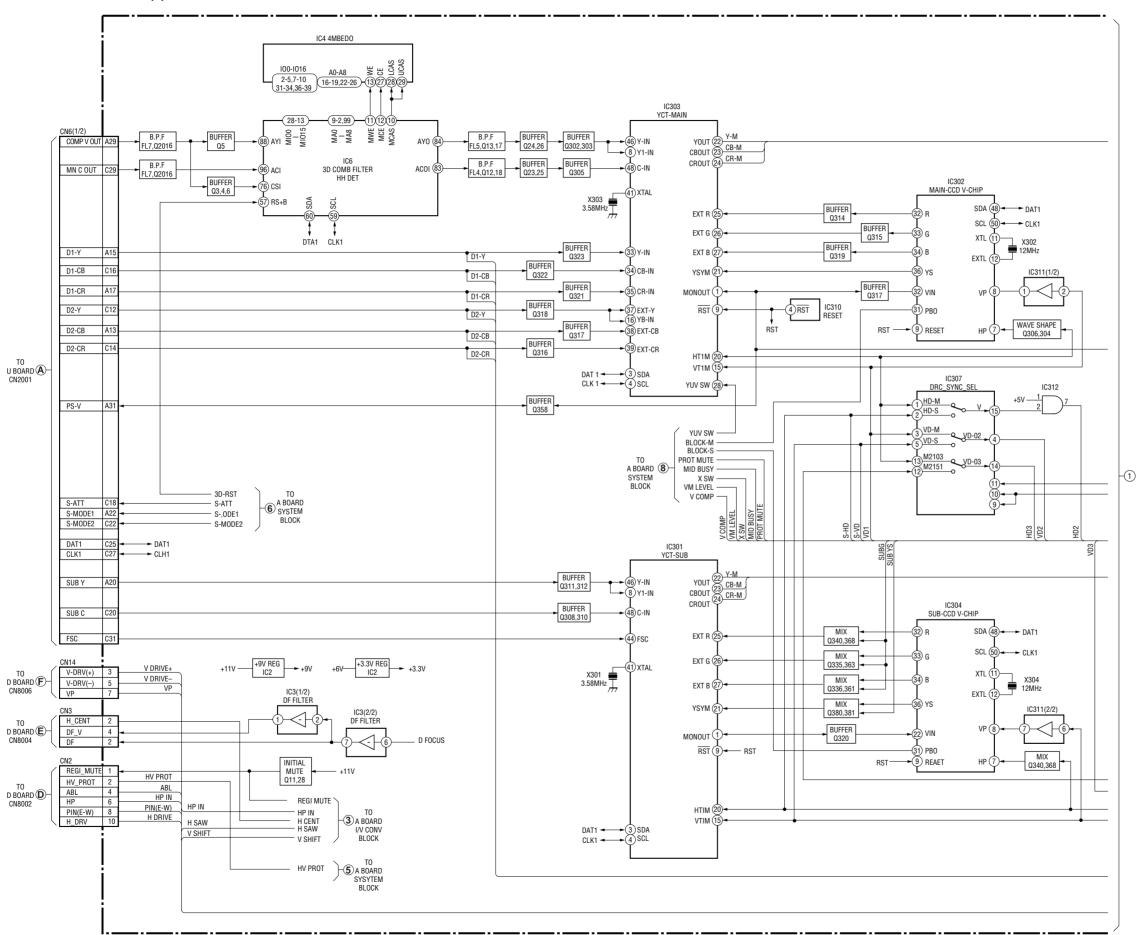
5-4. +B OVP CONFIRMATION

- Add to low voltage power supply between to TP. 5001 and ground.
- 2. Supply 120VAC to variable autotransformer.
- 3. Power on the Set and receive dot signal pattern.
- 4. Set the PICTURE and BRIGHTNESS settings.
- 5. Check the OVP is activated. Operate :less than 2.50V

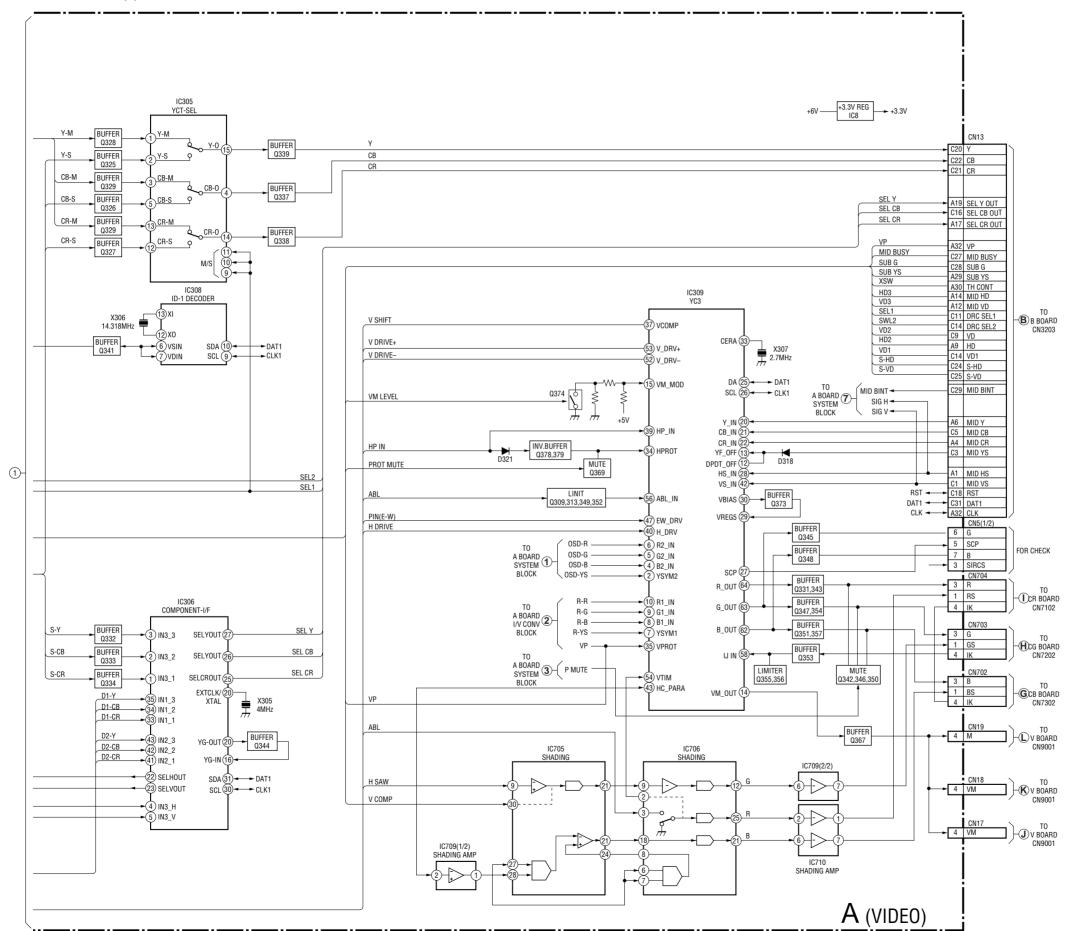
6-1. BLOCK DIAGRAM (1)

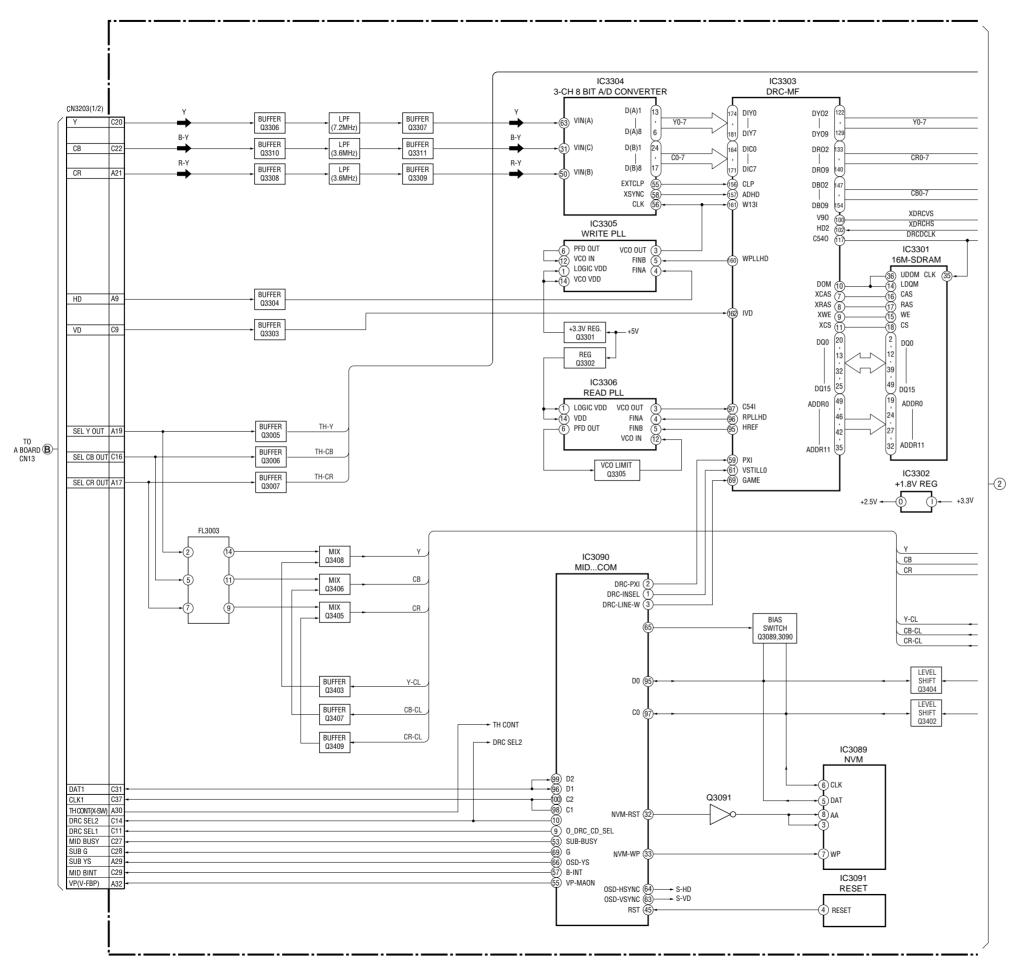


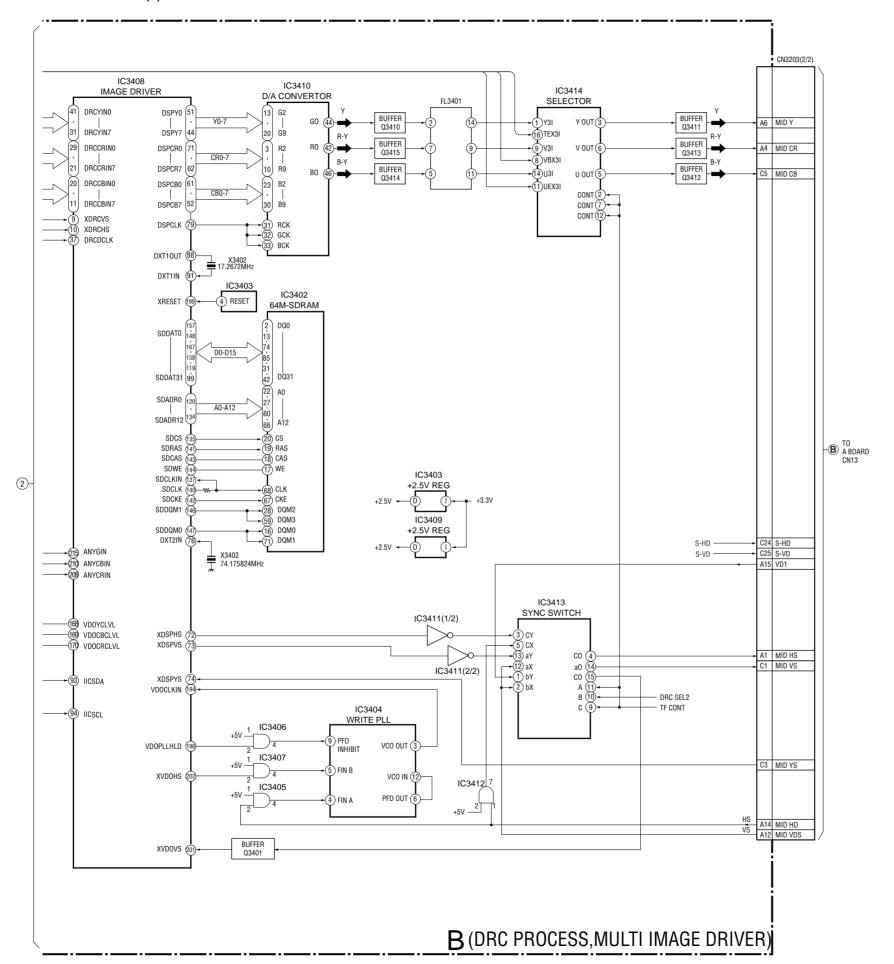
BLOCK DIAGRAM (2)



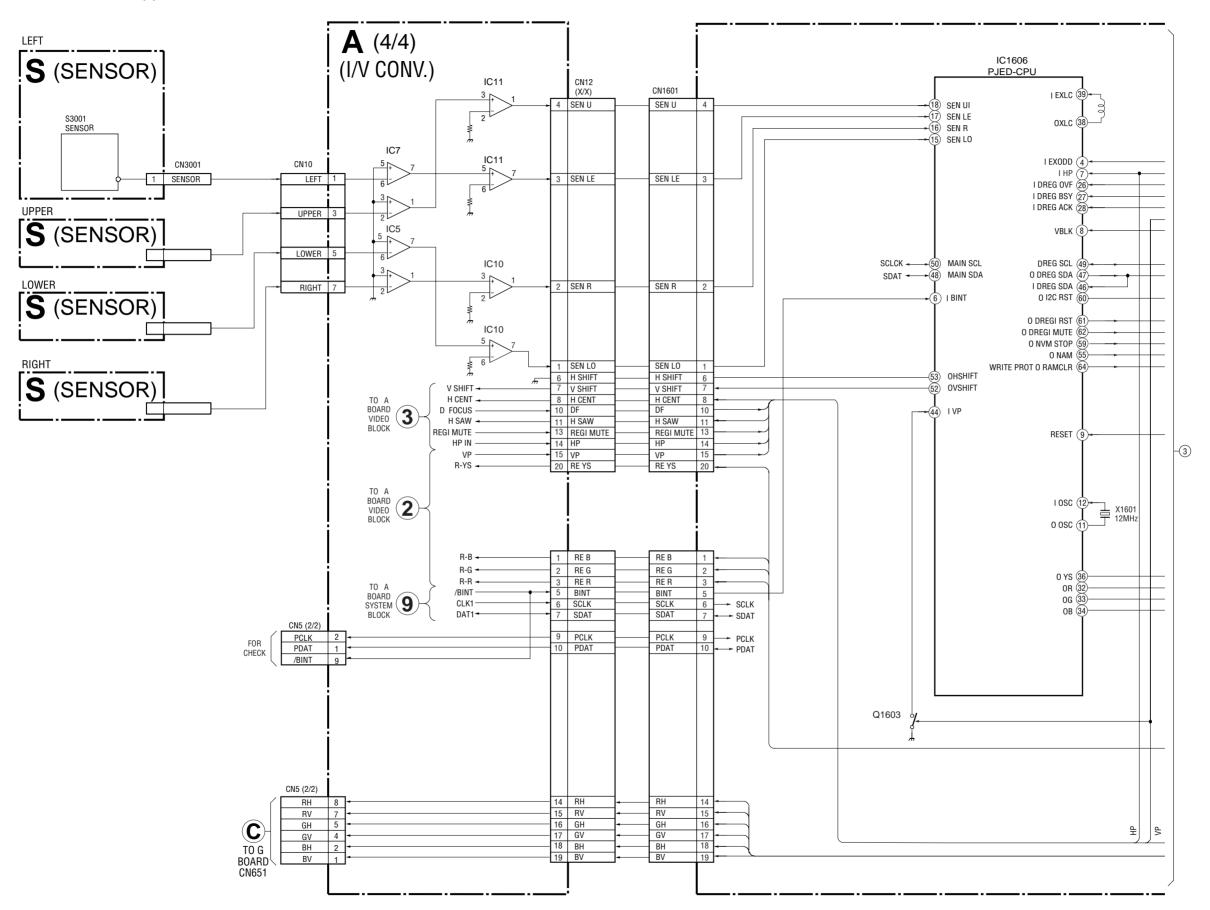
BLOCK DIAGRAM (3)



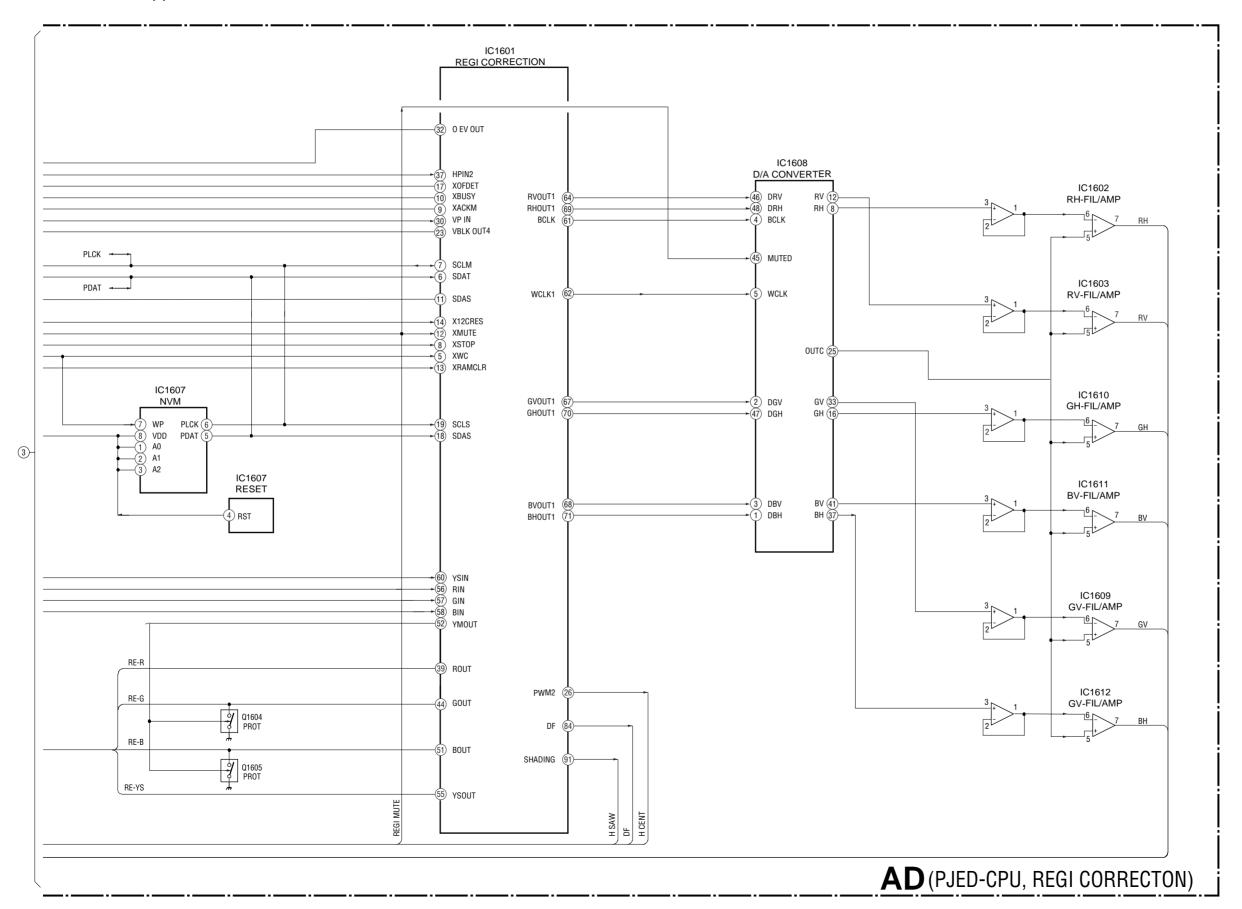




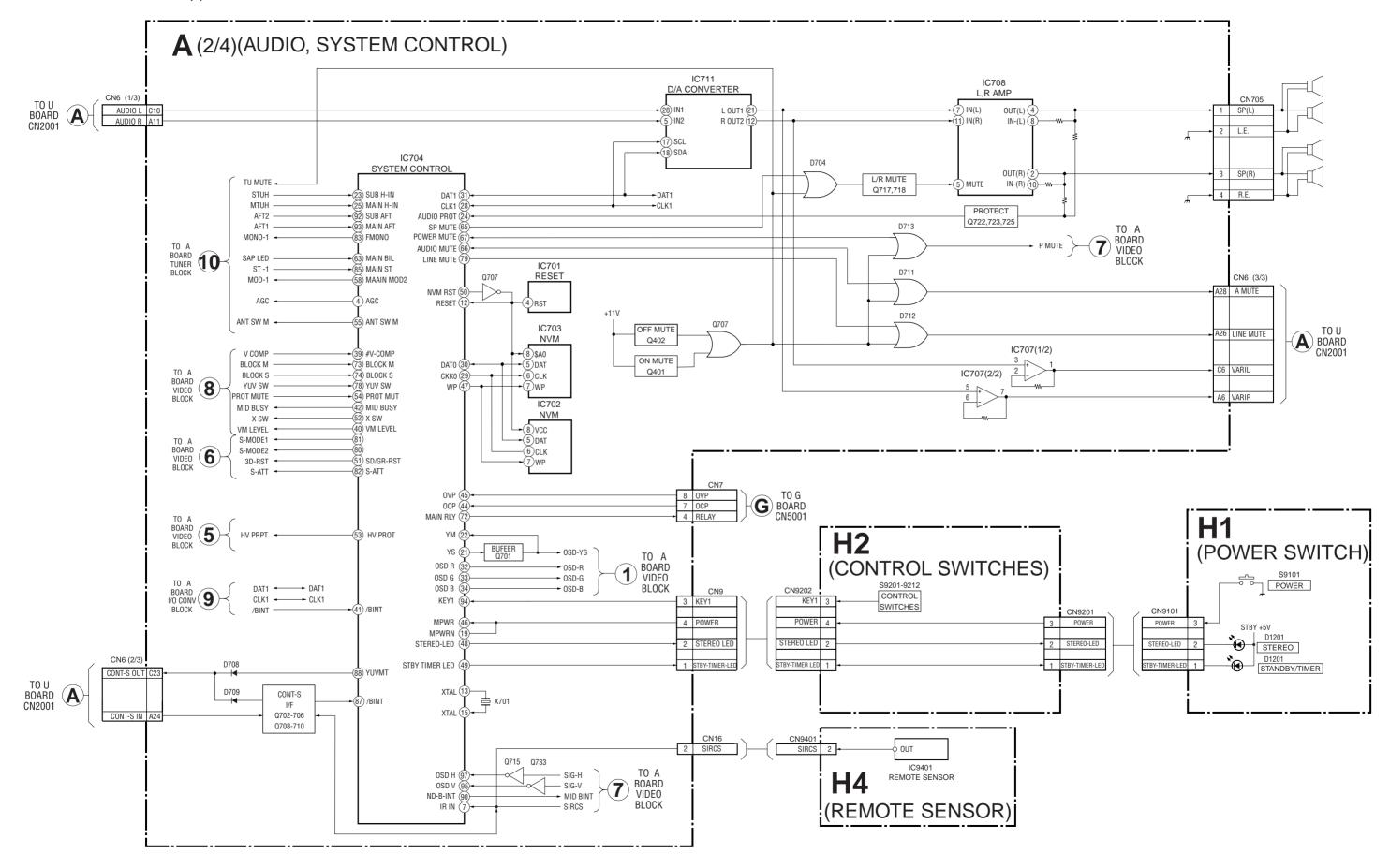
BLOCK DIAGRAM (6)



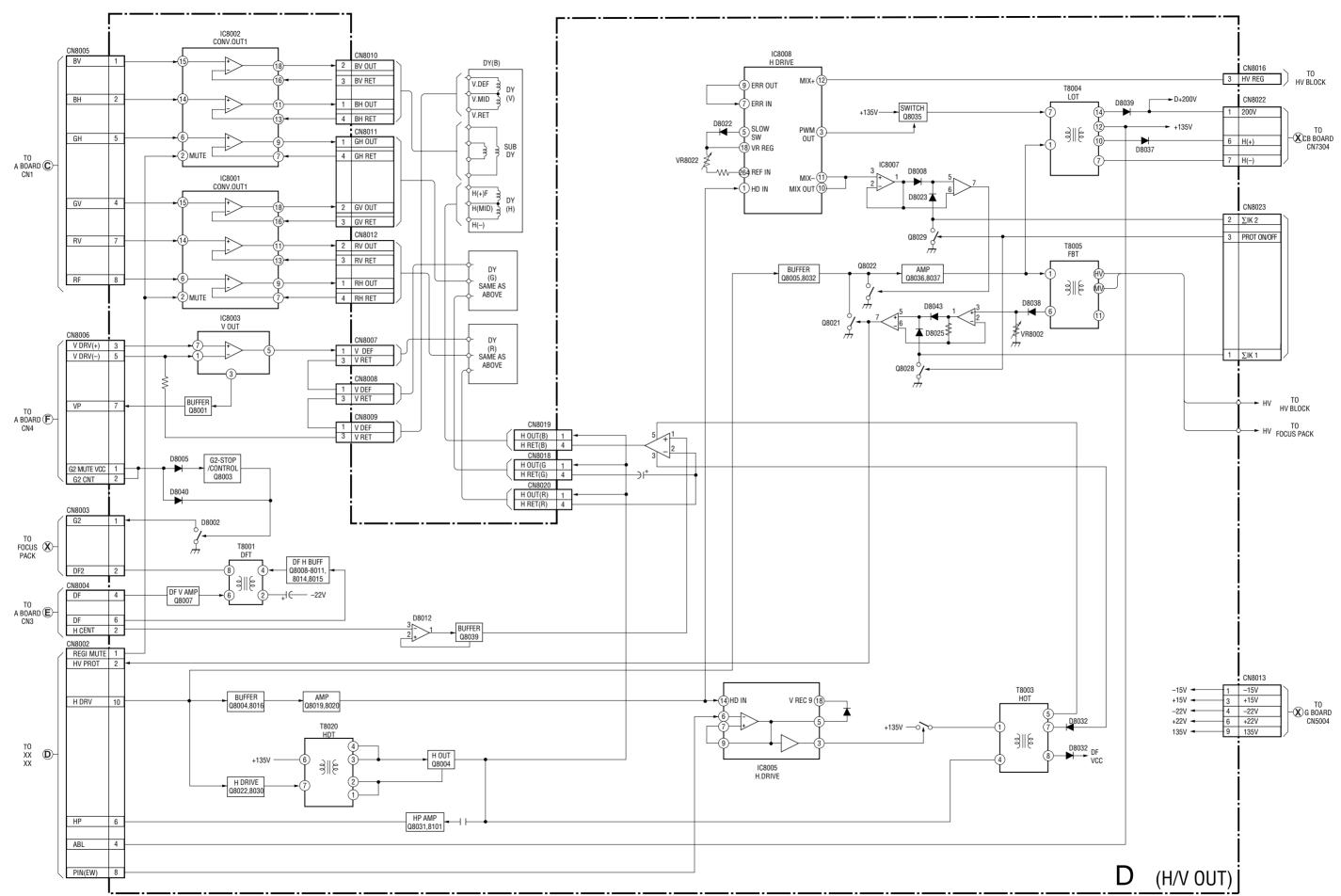
BLOCK DIAGRAM (7)



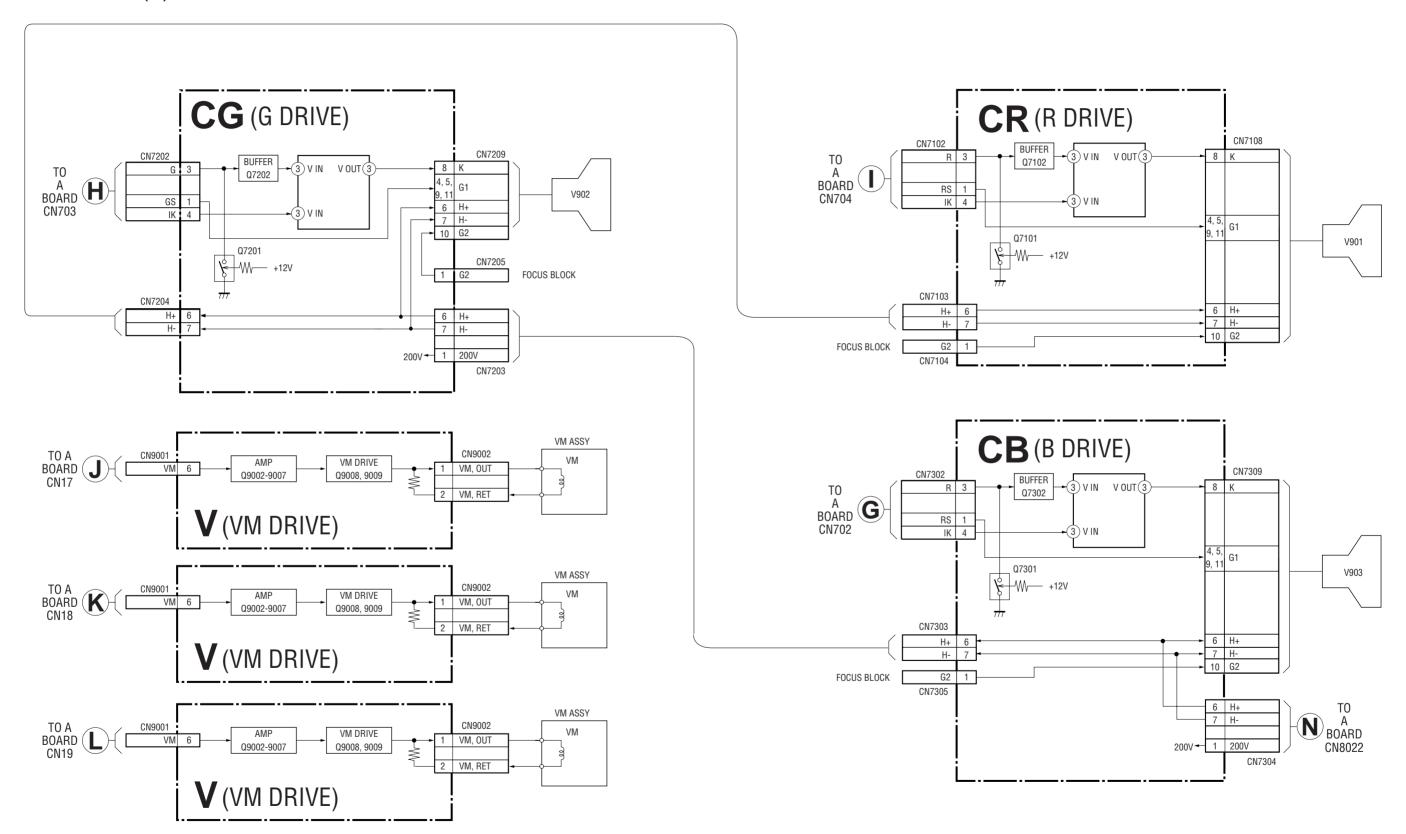
BLOCK DIAGRAM (8)



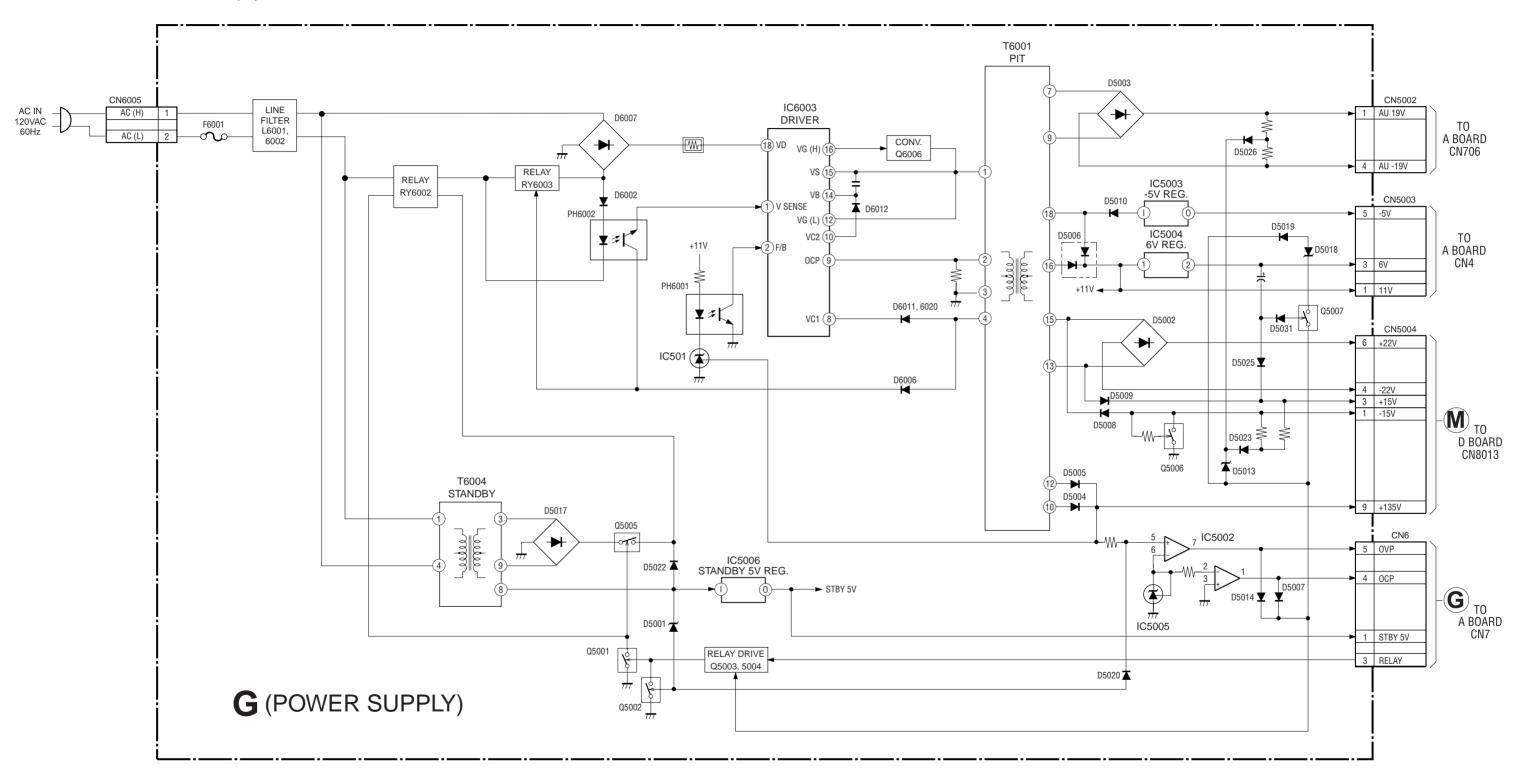
BLOCK DIAGRAM (9)



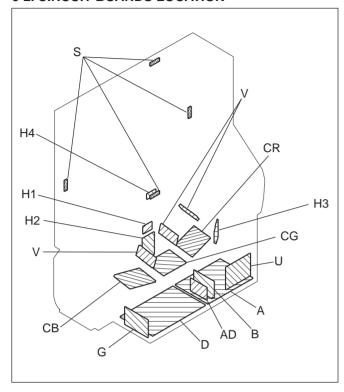
BLOCK DIAGRAM (10)



BLOCK DIAGRAM (11)



6-2. CIRCUIT BOARDS LOCATION



Note: The symbol display is on the component slde.

The components identified by shading and mark . are critical for safety. Replace only with part number

The symbol indicate fast operating fuse. Replace only with fuse of same rating as maked.

Note: Les composants identifiés per un tramé et une marque que par une piéce portant le numéro spécifié.

Le symbole indique une fusible a action rapide. Doit etre remplacee par une fusible de meme yaleur, comme maque.

6-3. SCHEMATIC DIAGRAMS

Note:

- Capacitors without voltage indication are all 50V.
- · All resistors are in ohms. $k\Omega$ =1000 Ω , $M\Omega$ =1000 $k\Omega$
- · Indication of resistance, which dose not have one for rating electrical power, is Reference information as follows.

Pitch: 5mm Rating electrical power: 1/4 W

- : nonflammable resistor.
- fusible resistor.
- \triangle : internal component.
- _____: panel designation and adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise CAPACITOR noted.
- 1777 : earth-chassis.
- ullet The components identified by lacktriangle in this basic schematic diagram have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation.

Should replacement be required, replace only with the value originally used.

- When replacing components identified by , make the necessary adjustments indicated. If results do not meet the specified value, change the component

 • Divided schematic diagram identified by
 and repeat the adjustment until the specified value is achieved. (Refer to VR8001 and VR8002 adjustment on Page 30.)
- Readings are taken with a NTSC color-bar signal input.
- Readings are taken with a $10M\Omega$ digital multimeter.
- Voltages are dc with respect to ground unless otherwise noted.
- Voltage variations may be noted due to normal production tolerances.
- All voltages are in V.
- *: Measurement impossibillity.

· Circled numbers are waveform references.

• ---- : B+ bus.

___ : B- bus.

• Signal path.(RF)

RESISTOR : RN METAL FILM · RC SOLID : FPRD NONFLAMMABLE CARBON : FUSE NONFLAMMABLE FUSIBLE NONFLAMMABLE WIREWOUND NONFLAMMABLE METAL OXIDE ·RB NONFLAMMABLE CEMENT ADJUSTMENT RESISTOR : LF-8L MICRO INDUCTOR COII :TA TANTALUM : PS STYROL · PP POLYPROPYLENE : PT MYLAR : MPS METALIZED POLYESTER : MPP METALIZED POLYPROPYLENE : ALB BIPOLAR

: ALT

Schematic diagrams of A, AD, B, D, G, and U boards are divided into several pieces. Information to where the line is to be connected is printed at the end of each.

For example, [TO A1/5,A2/5_1] means the line is connected to Ref. No. 1 of A(1/5) and A(2/5) schematic diagrams.

HIGH TEMPERATURE

: ALR HIGH RIPPLE

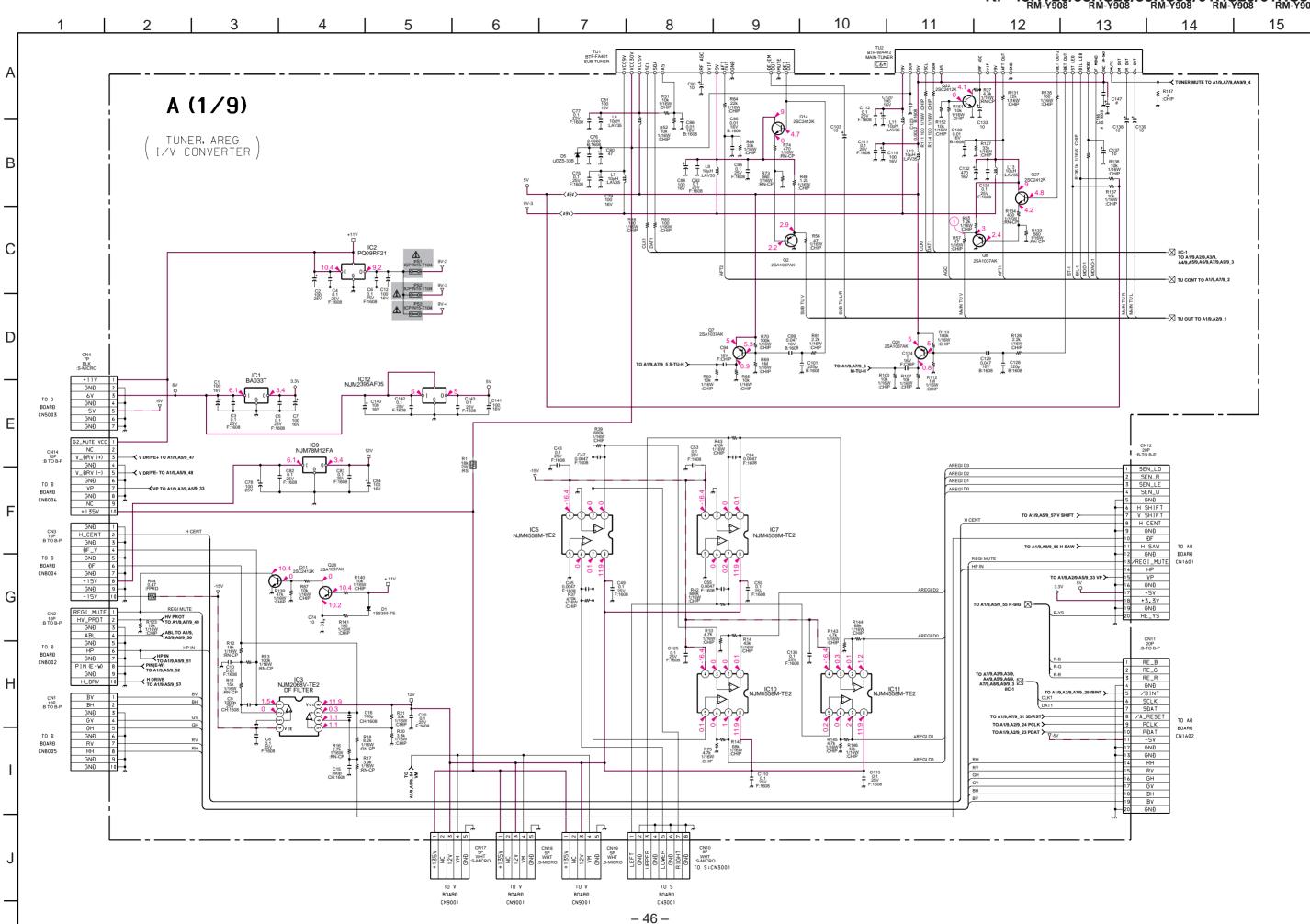
TO A1/5,A2/5_1

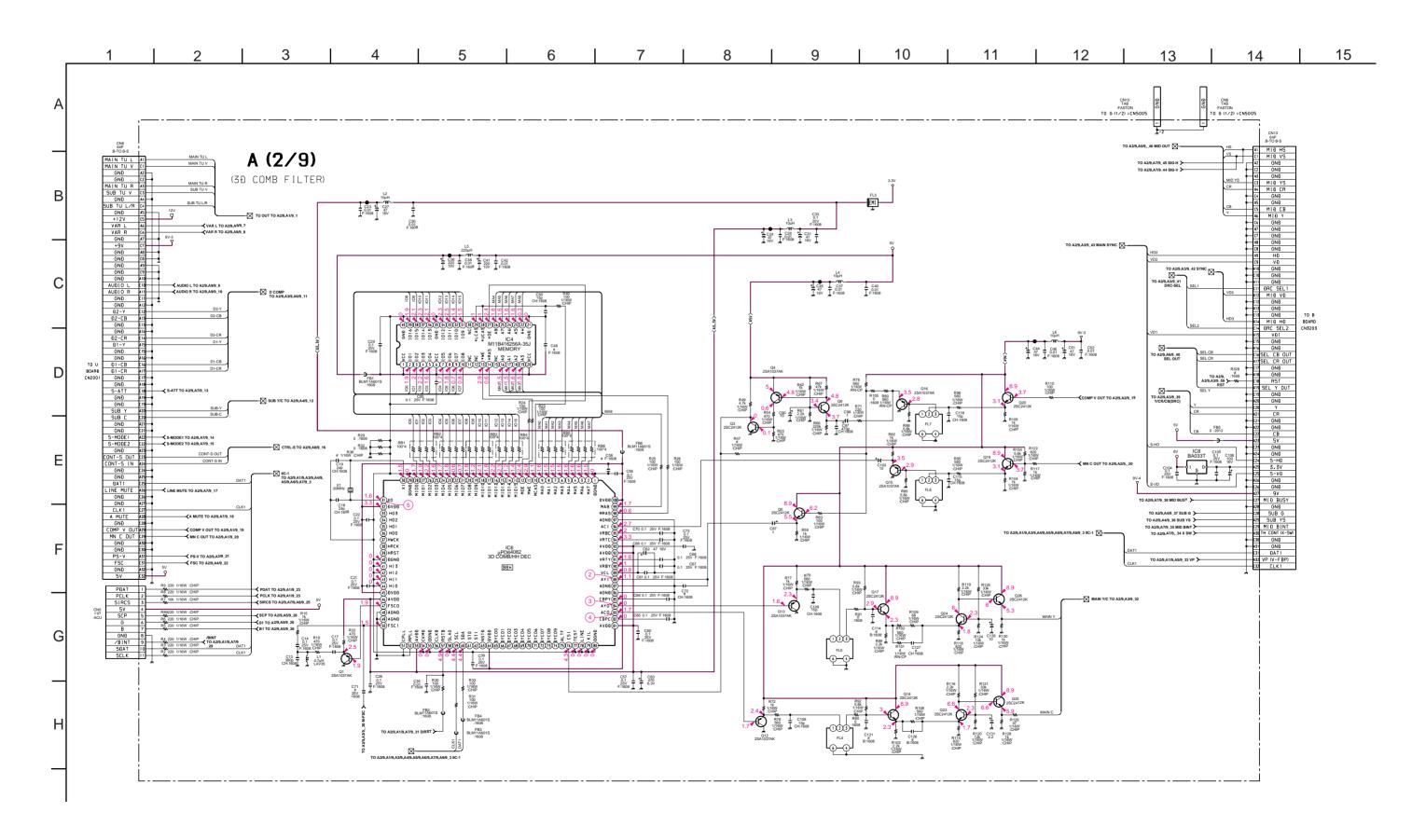
Ref. No. ➤ Name of divided schematic diagram Terminal name of semiconductors in silk screen printed circuit (*)

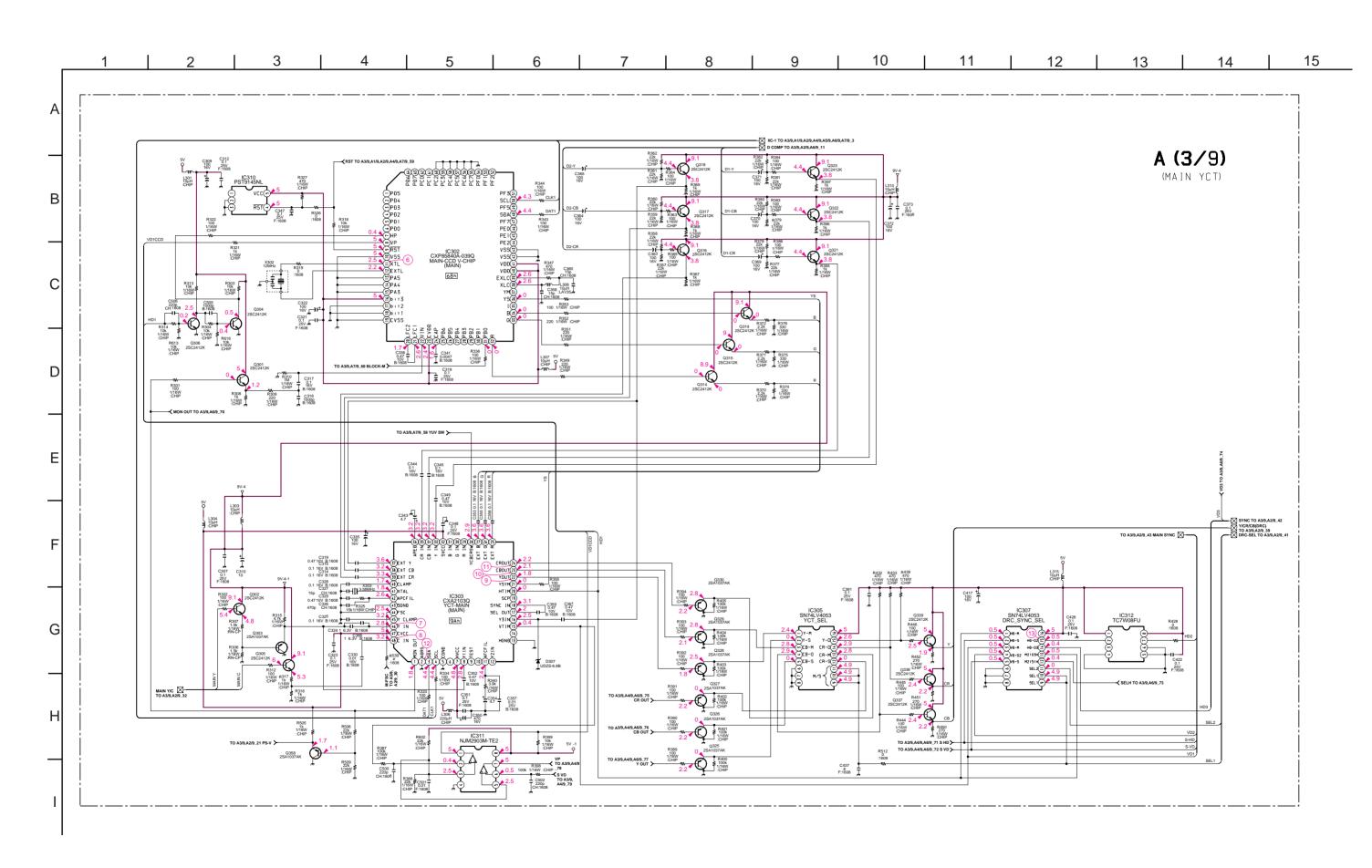
	Device	Printed symbol	Terminal name	Circuit	
		ou oyiiiboi	Collector		
①	Transistor	T	Base Emitter		
2	Transistor	_	Collector Base Emitter	1.2	
3	Diode	A	Cathode - Anode	*	
4	Diode	T	Cathode Anode (NC)	<u> </u>	
5	Diode		Anode (NC)	⋰ 。	
6	Diode	T	Common Anode Cathode	, °	
7	Diode	_	Common Anode Cathode	r <mark>⊳l + ⊳l</mark>	
8	Diode	T	Common Anode Anode		
9	Diode		Common Anode Anode	r → ► →	
10	Diode	T	Common Cathode Cathode		
11)	Diode		Common Cathode Cathode		
12	Diode		Anode Anode Cathode Anode		
13	Transistor (FET)		Drain Source Gate		
14)	Transistor (FET)	-	Drain Source Gate	so so	
(15)	Transistor (FET)		□ Source □ Drain □ Gate		
16	Transistor		☐ Emitter☐ Collector☐ Base		
17)	Transistor	++	C2 B1 E1 E2 B2 C1	B10 C10 OC2 B10 OE2	
18	Transistor	++	C1 B2 E2 E1 B1 C2	C10 QC2 B10	
19	Transistor	_	C1 B2 E2 E1 B1 C2	E10 0E2	
20	Transistor		C1 B2 E2 E1 B1 C2	B1 O C2 OB2	
21)	Transistor		E2 B1 E1 C2 C1(B2)	C1(B2) Q QC2 B1 Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q	
22	Transistor	_	(B2) B1 E1 E2 C1 C2	B10 C10 OC2	
23	Transistor	_	(B2) E2 E1 B1 C2 C1	B10 C2 B10 C2	
-	Discrete semiconductot				
hin:	p semiconductors that are not actually used are included.) Ver.1.5				

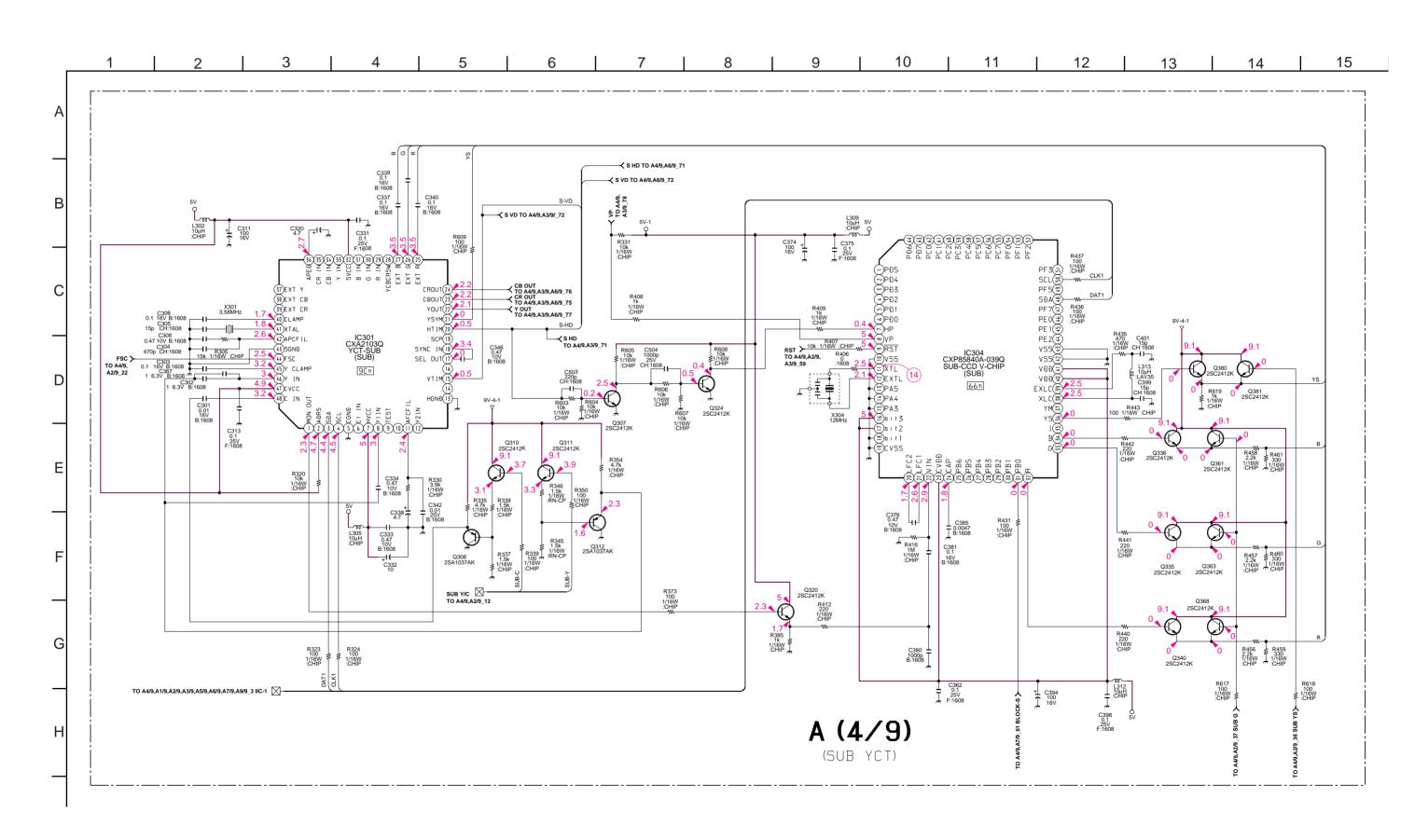
(Chip semiconductors that are not actually used are included.)

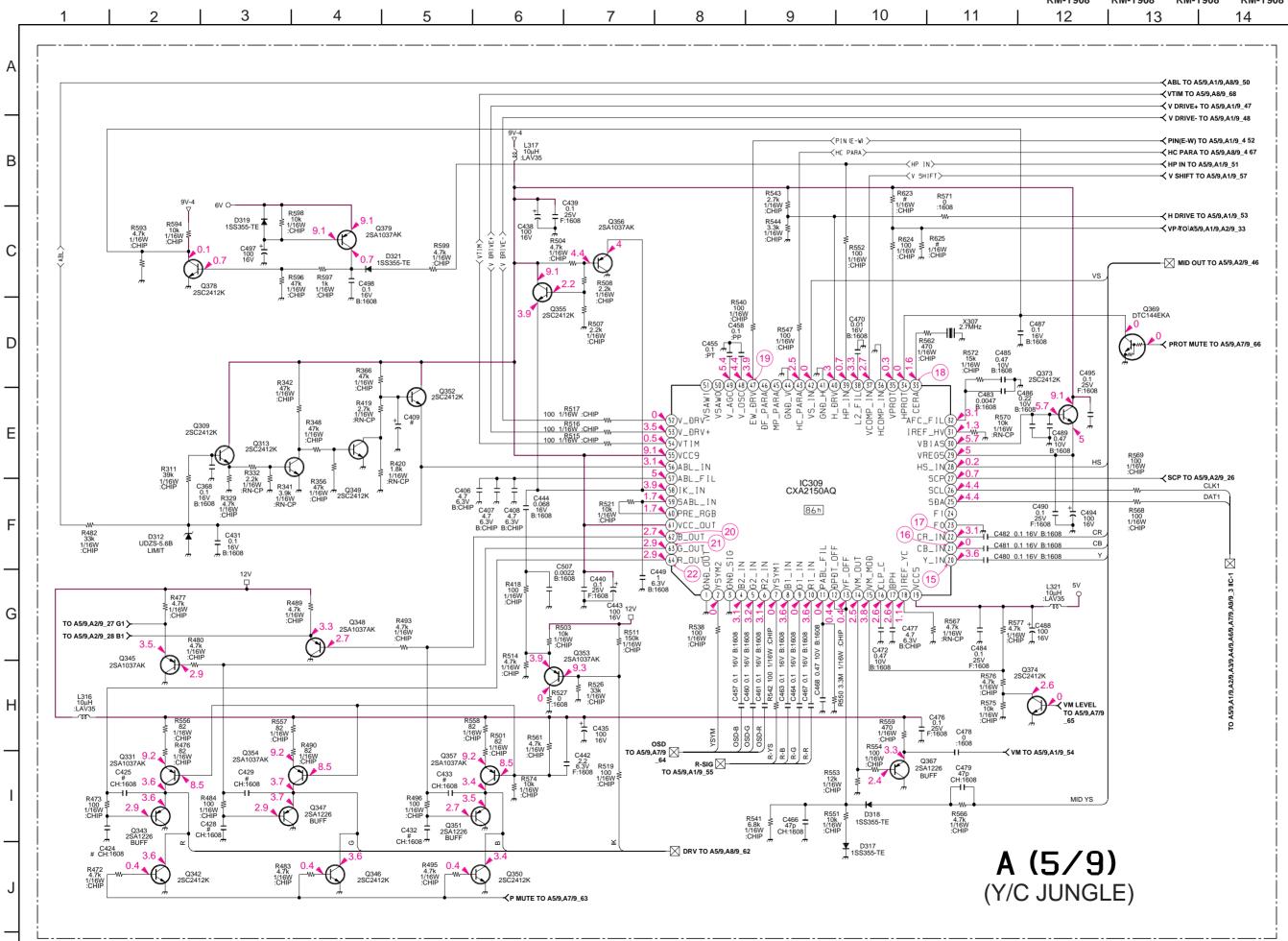
N 10 87 (B)

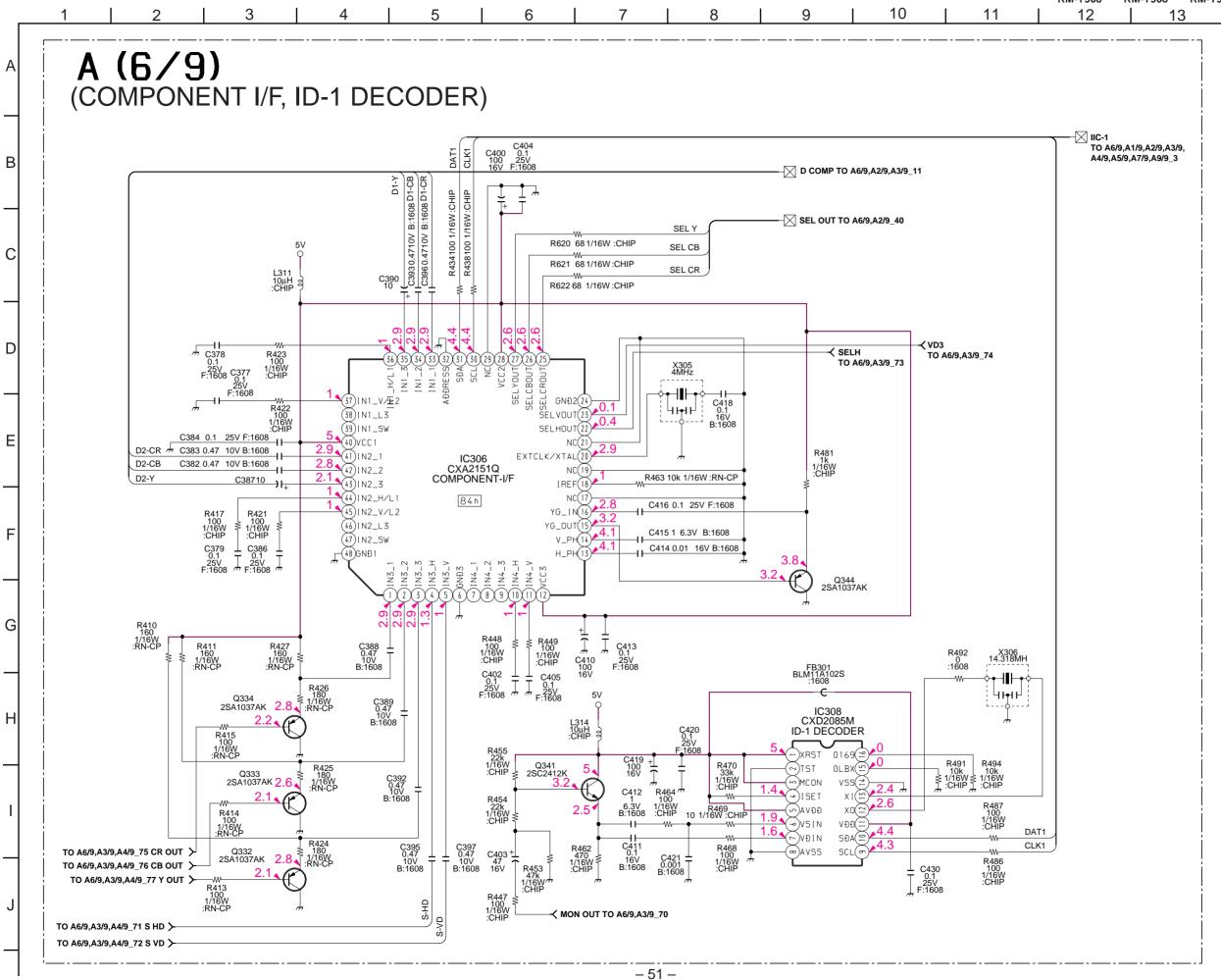


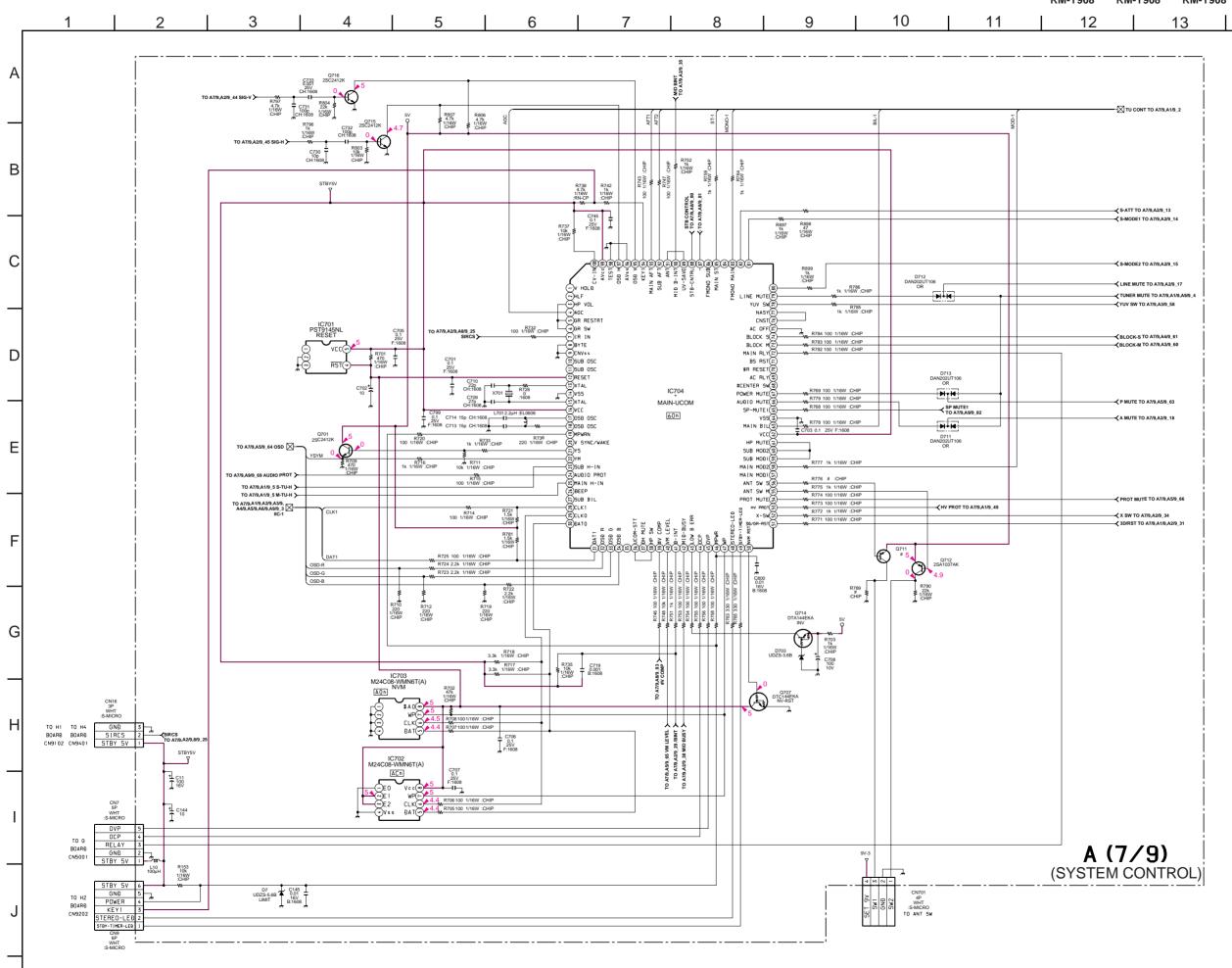


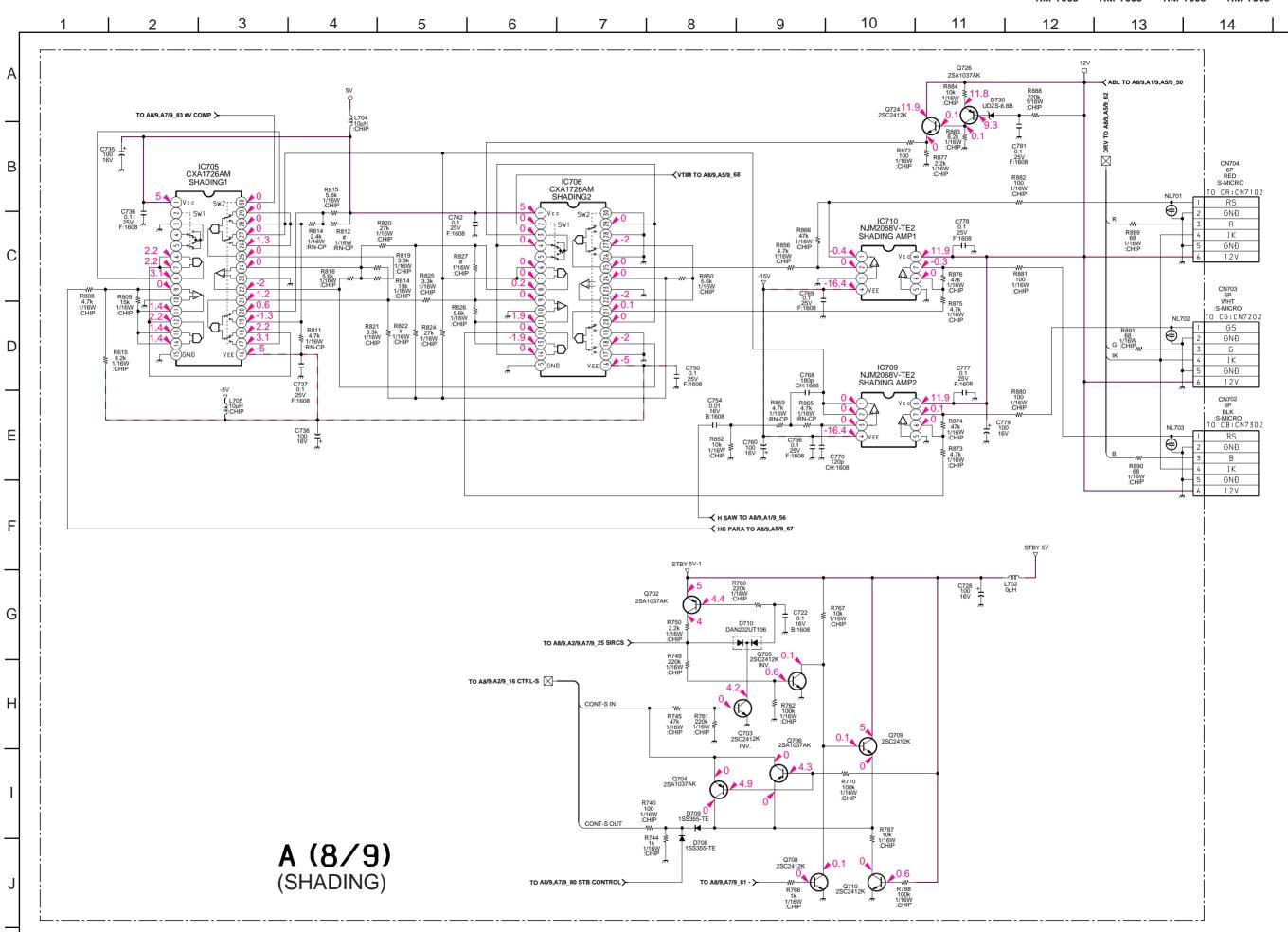


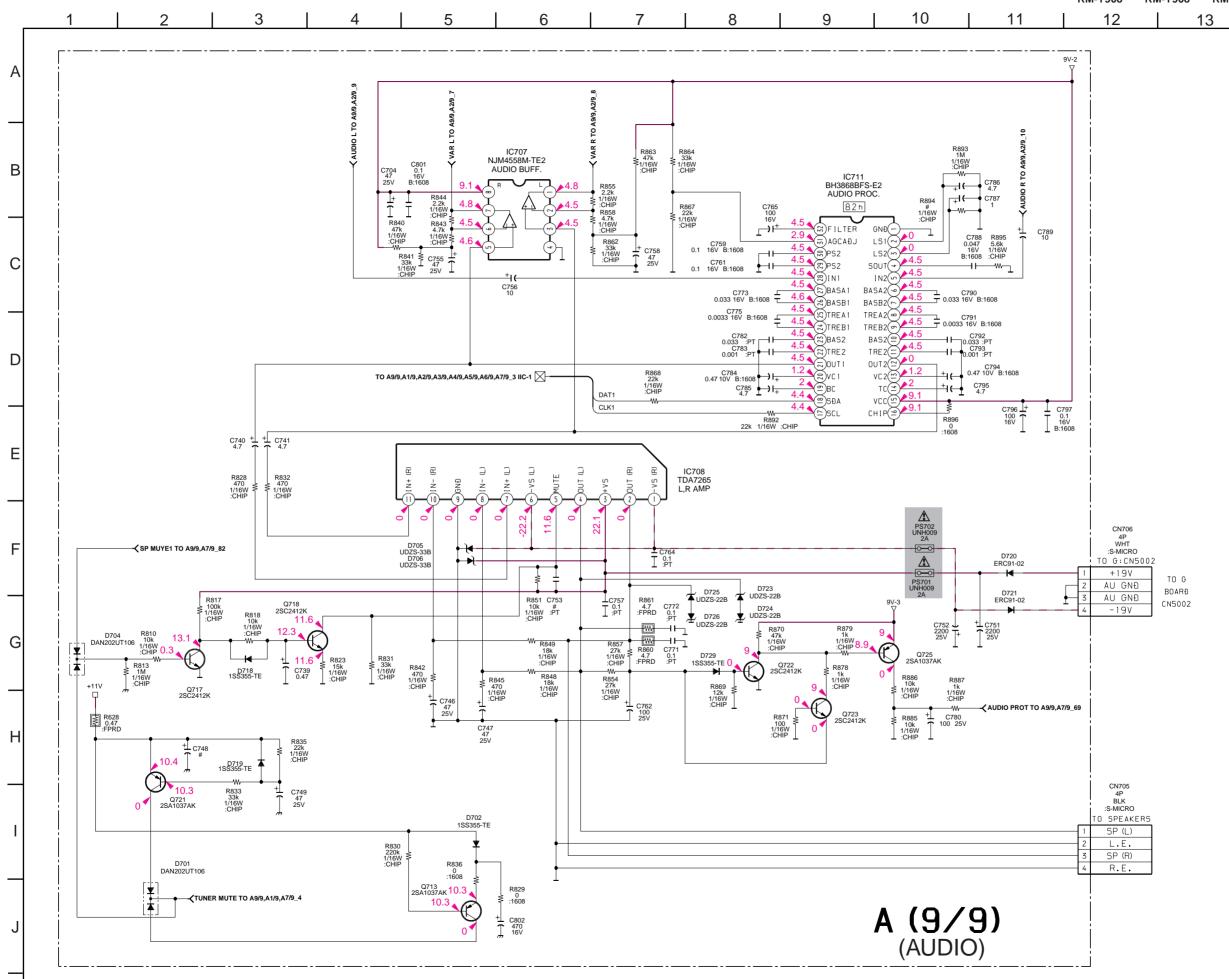


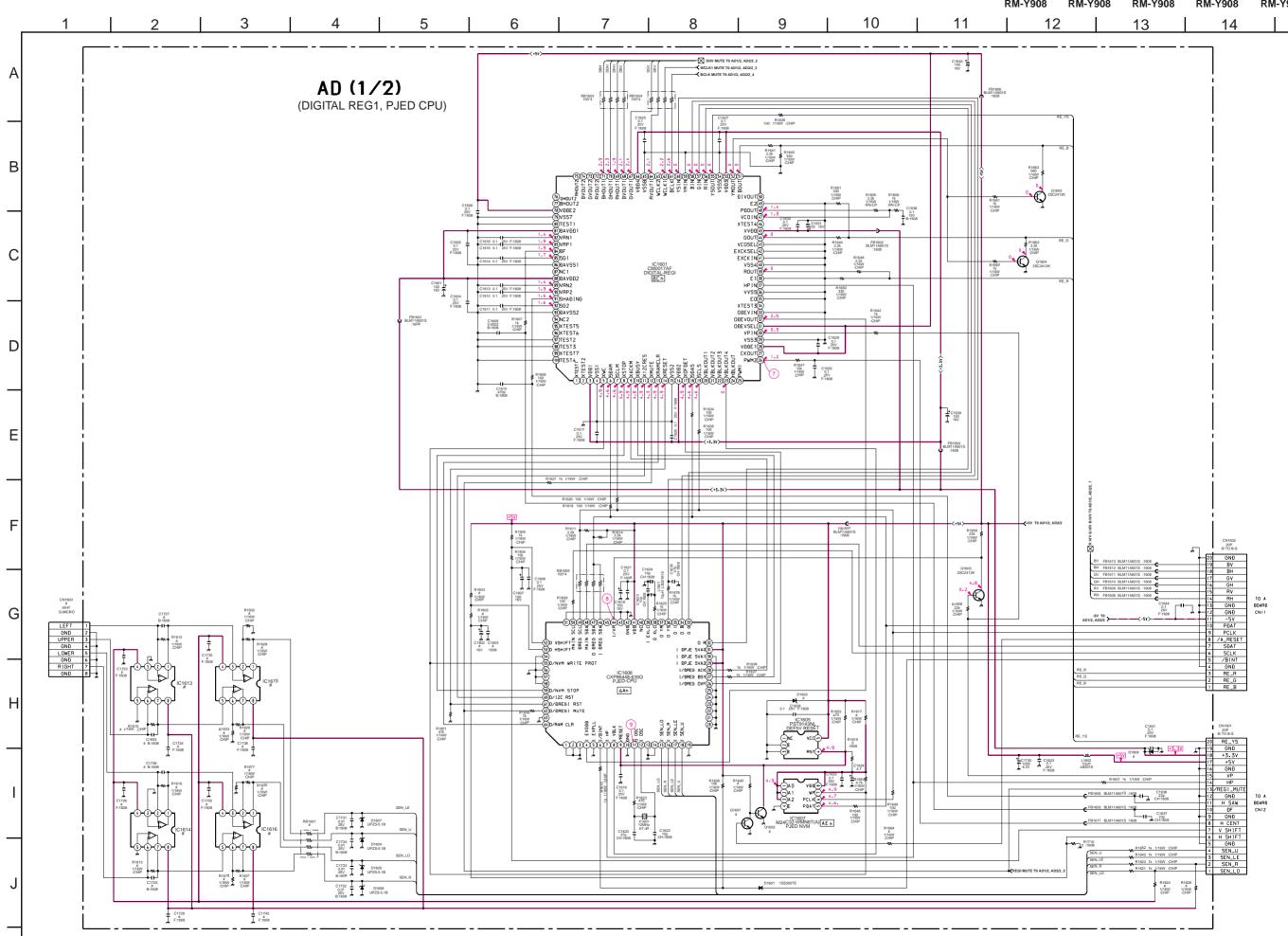


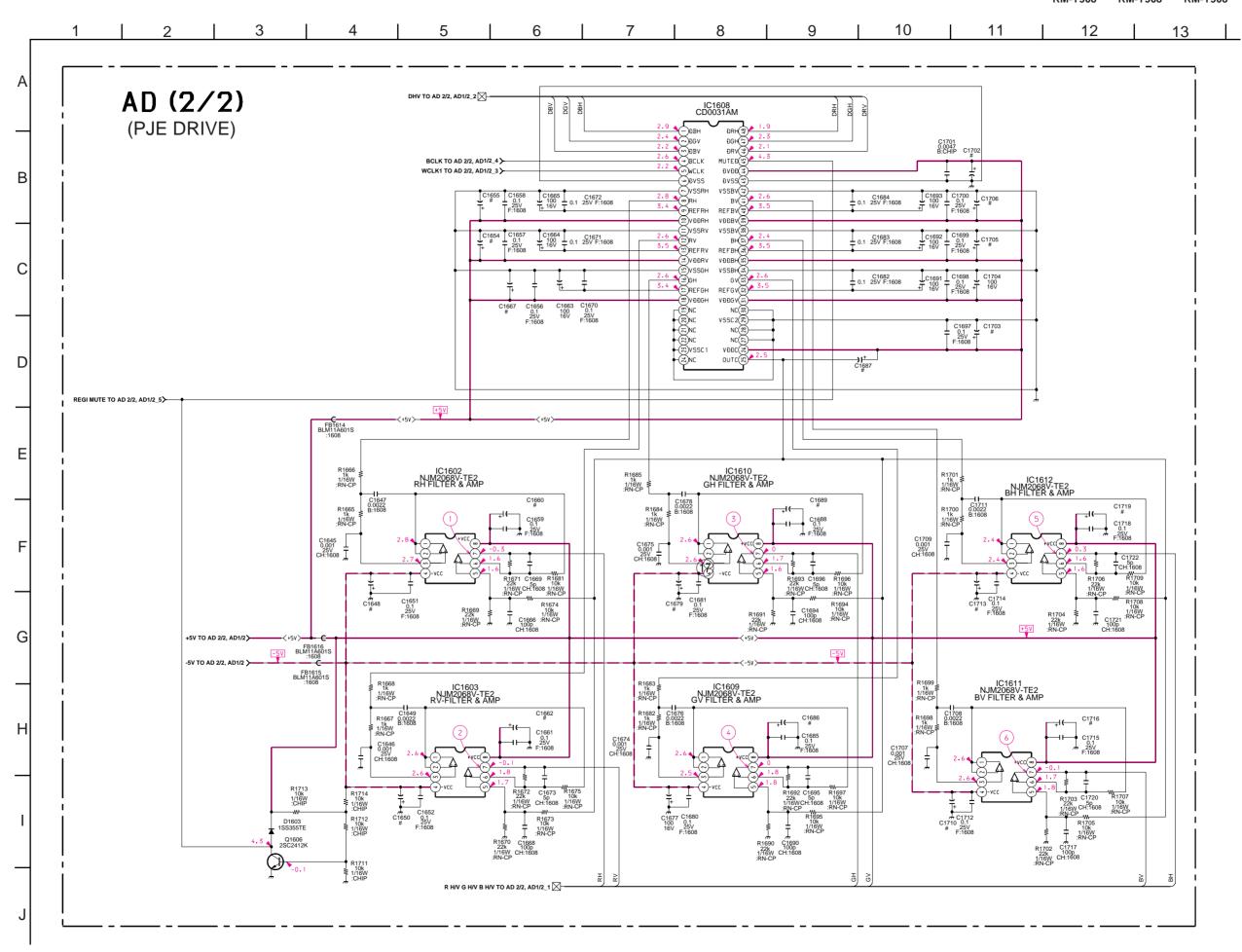


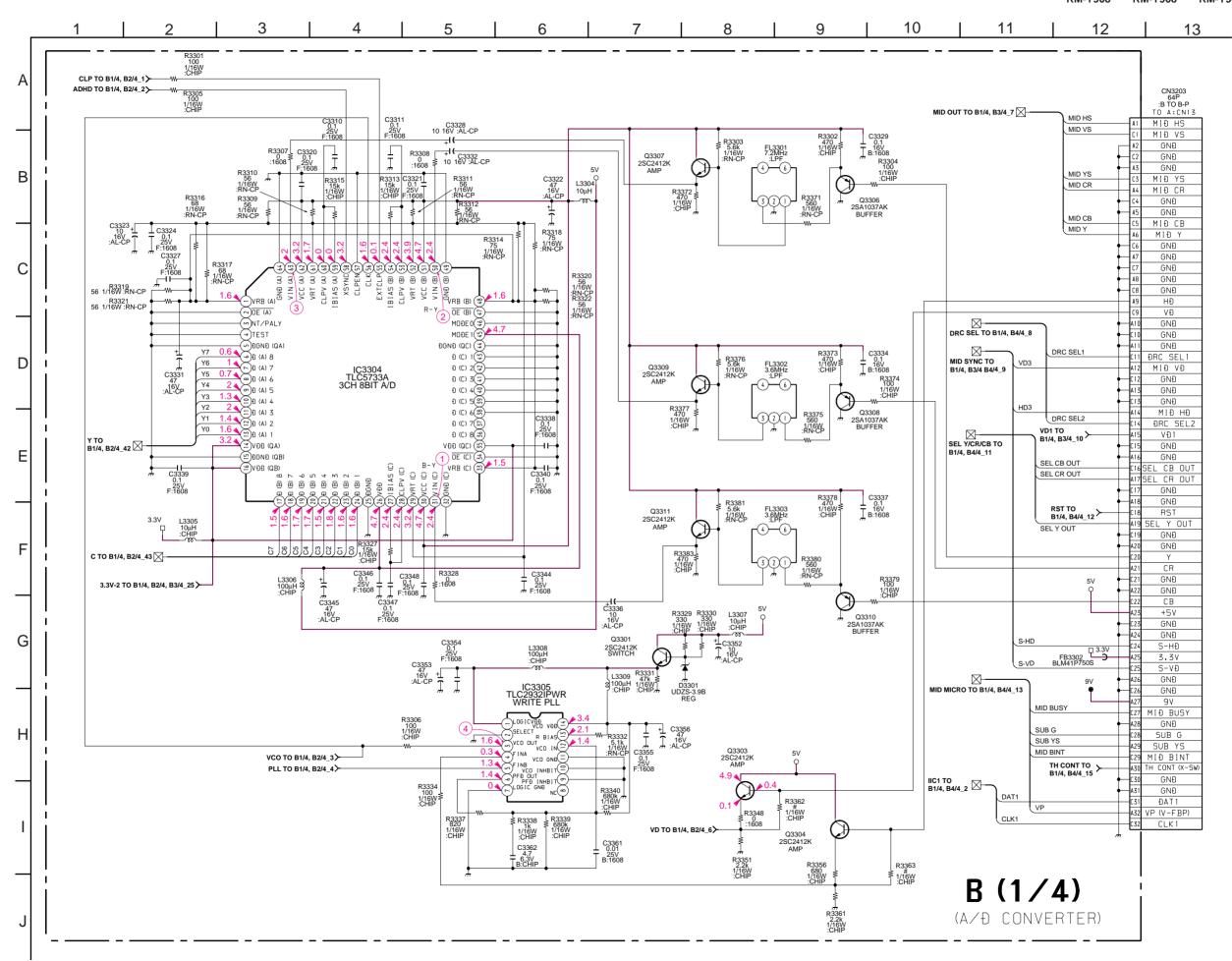


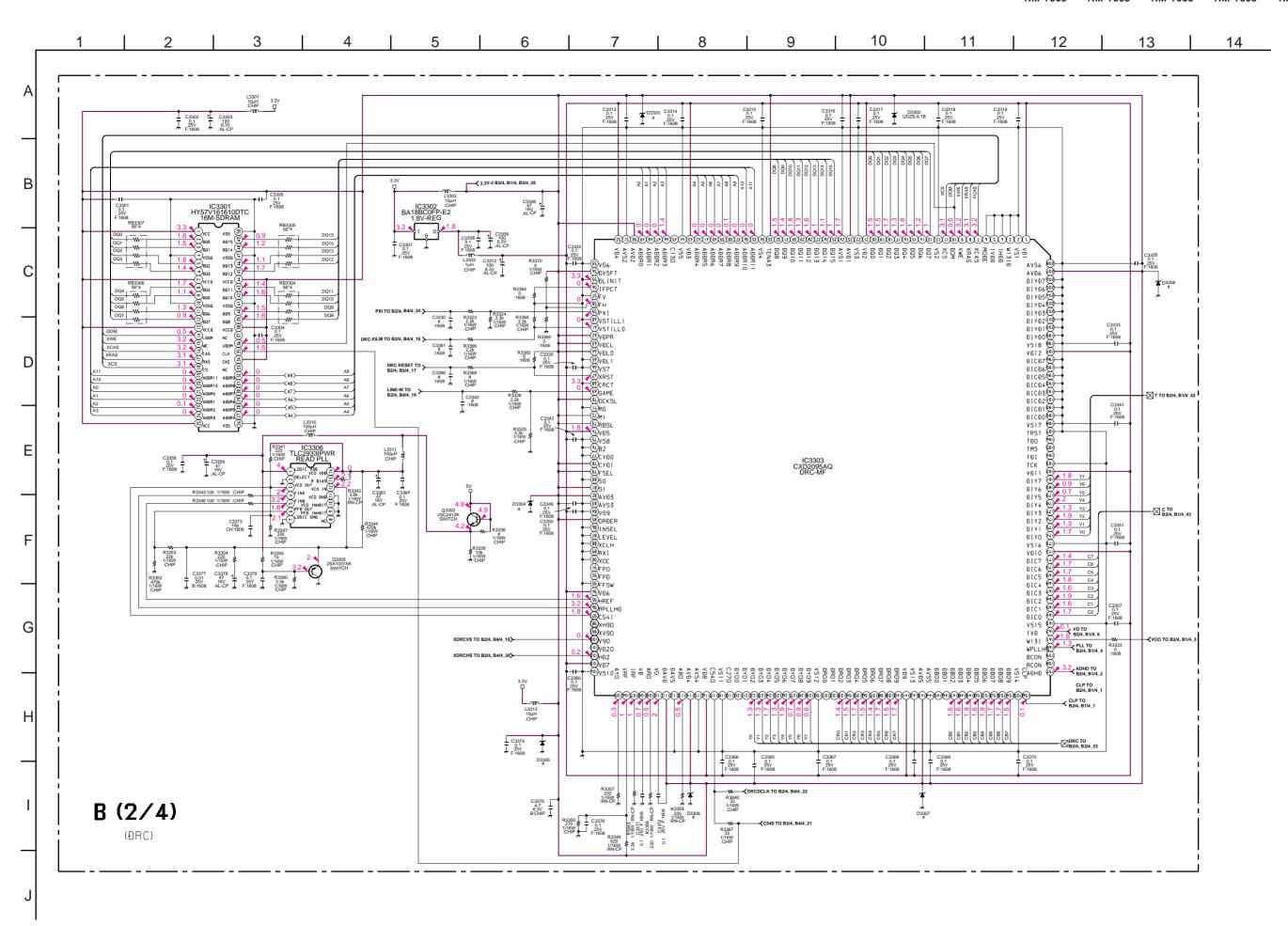


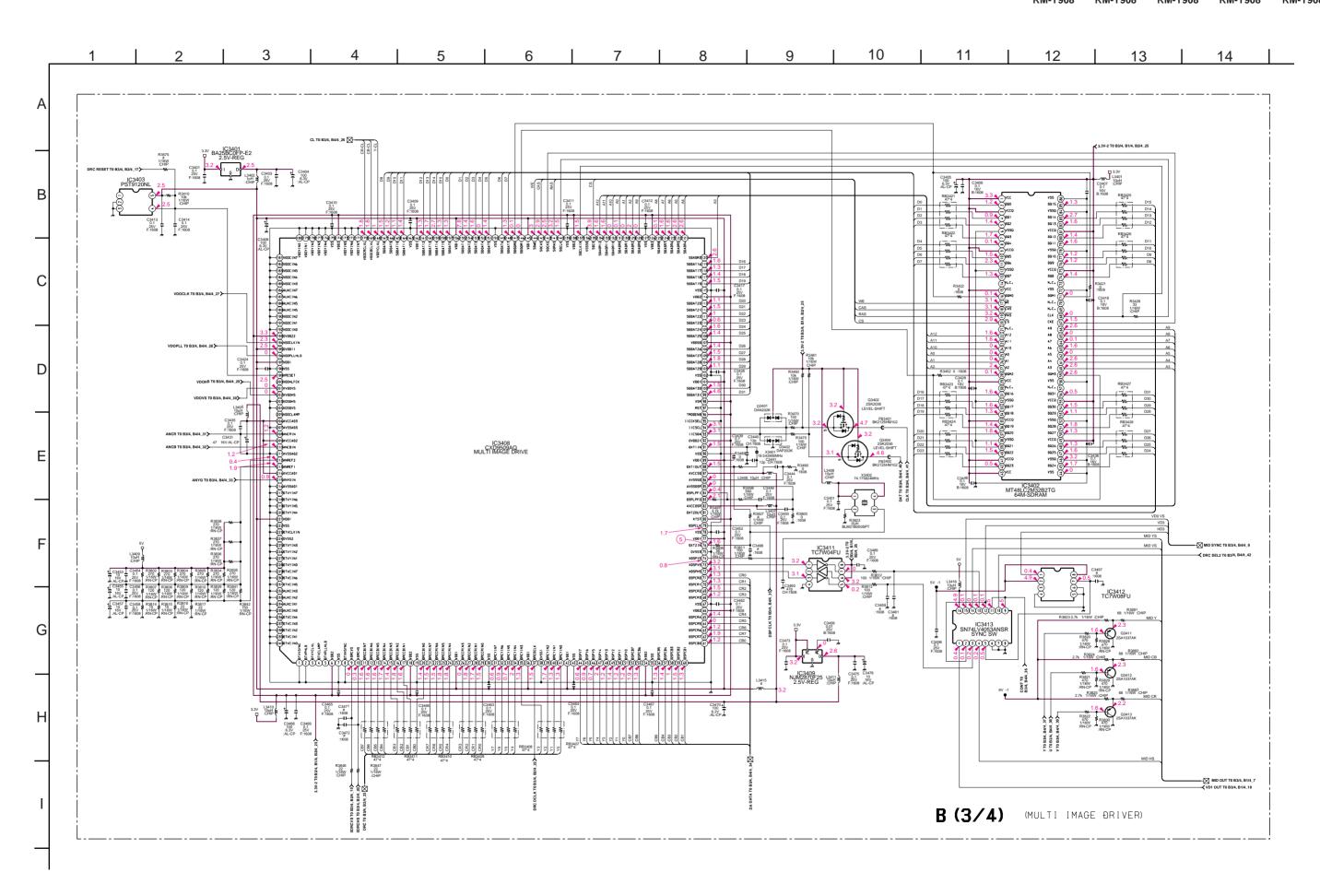


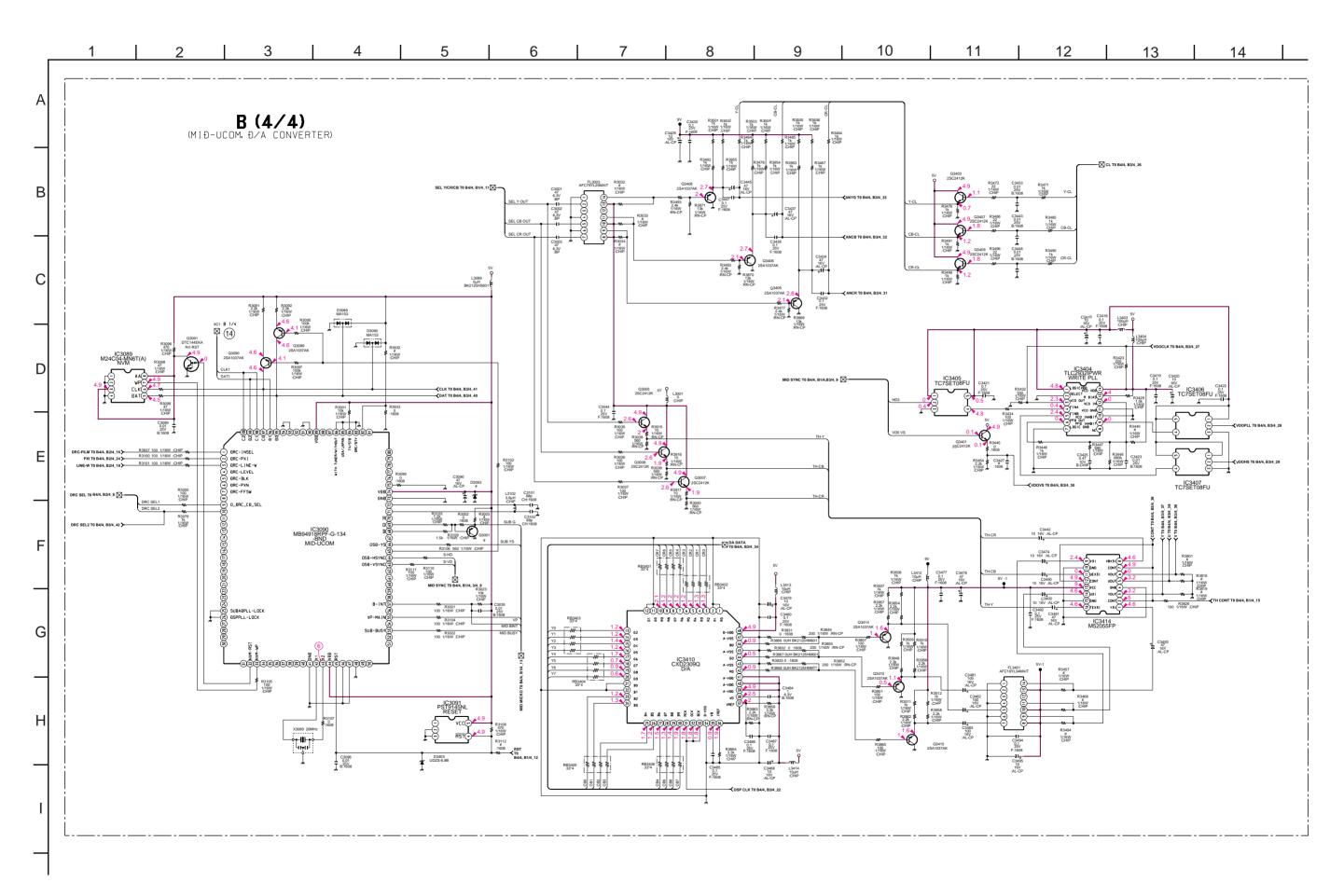


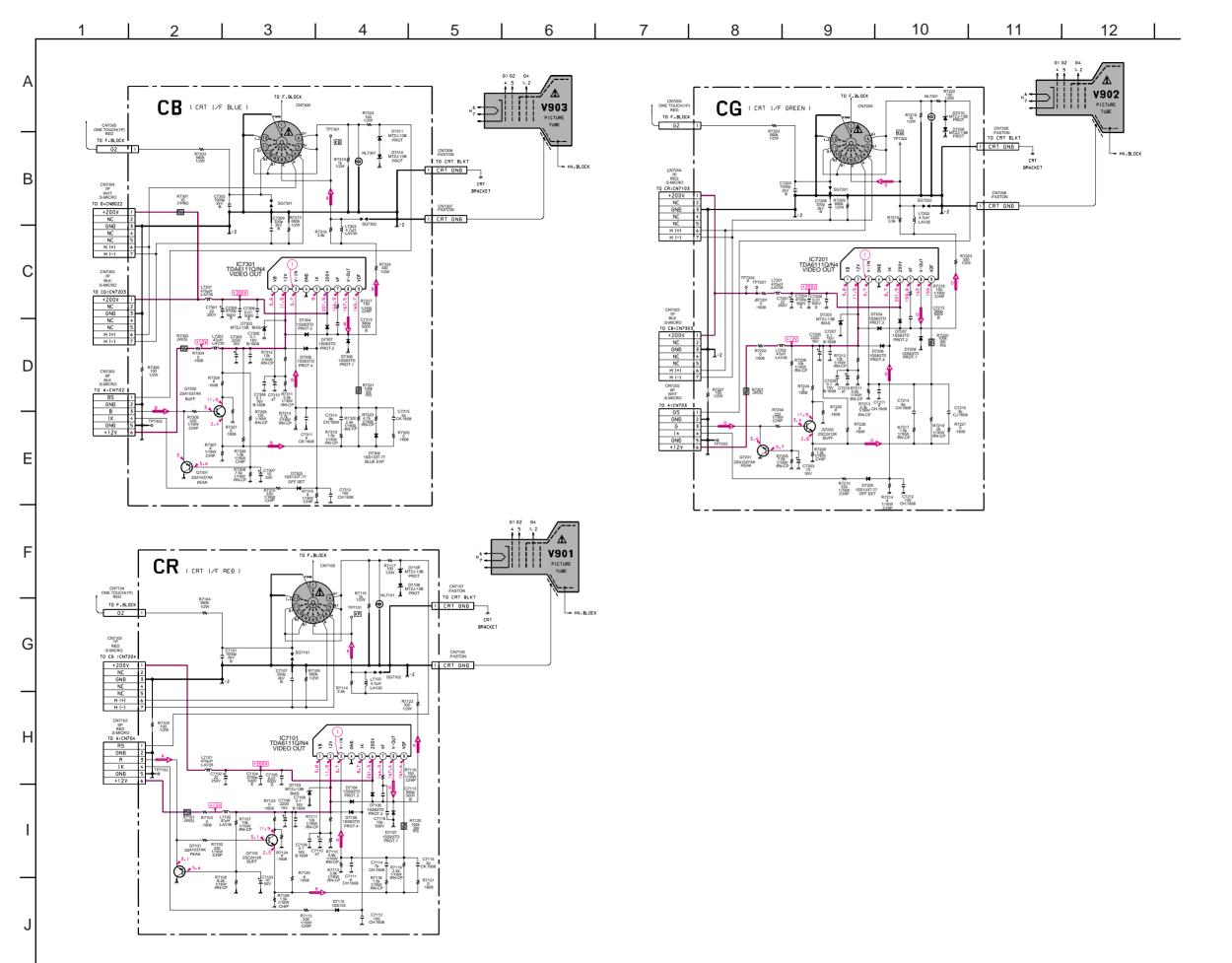


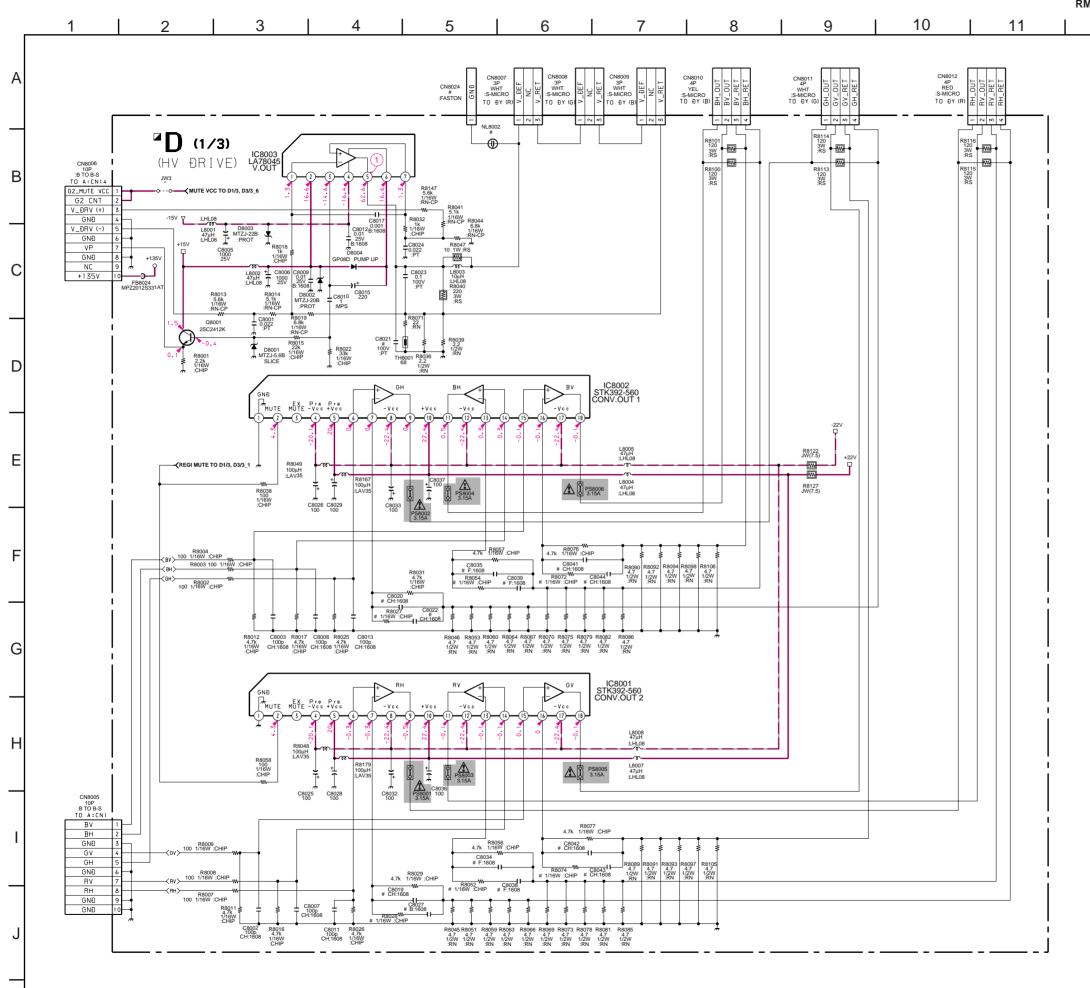


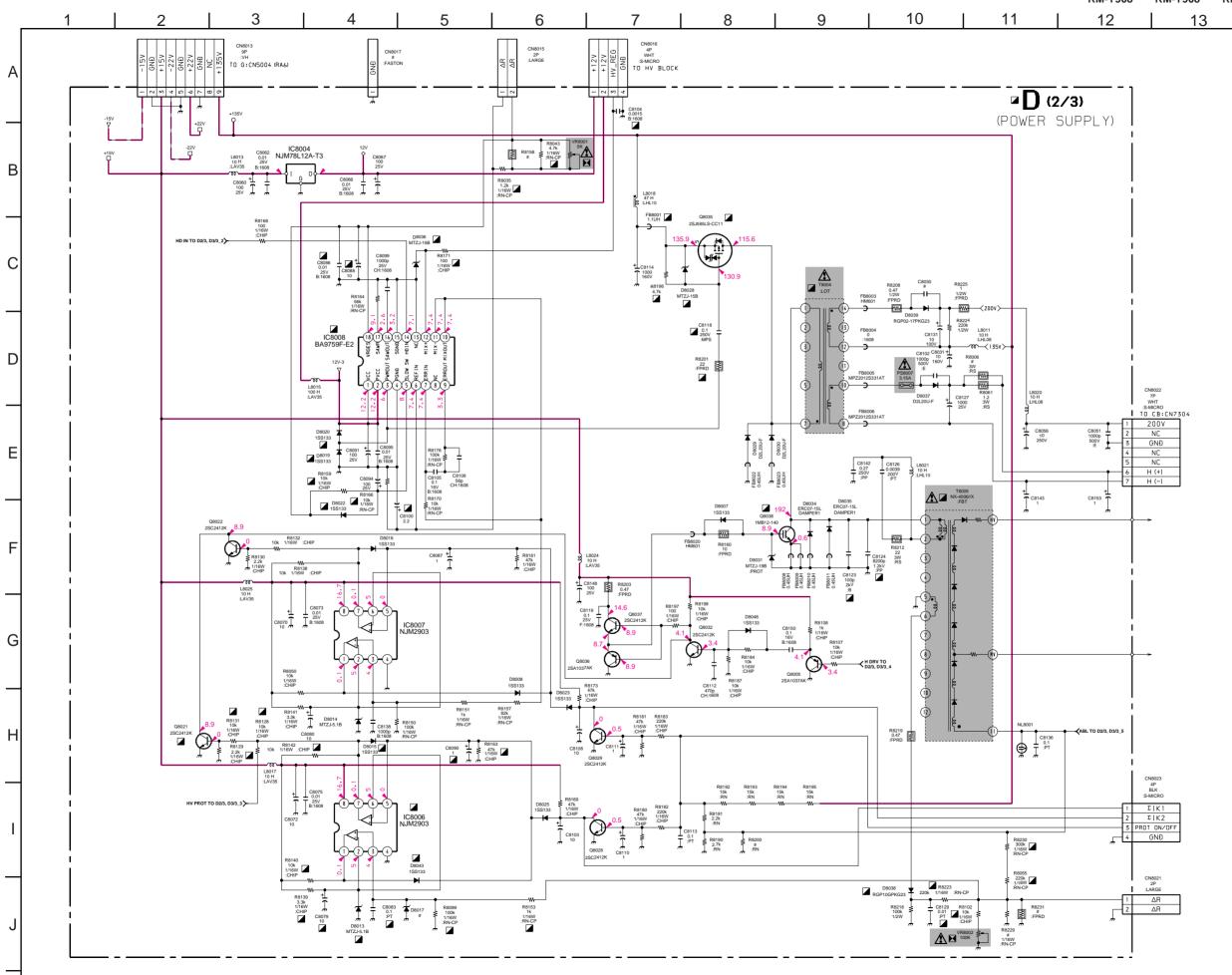


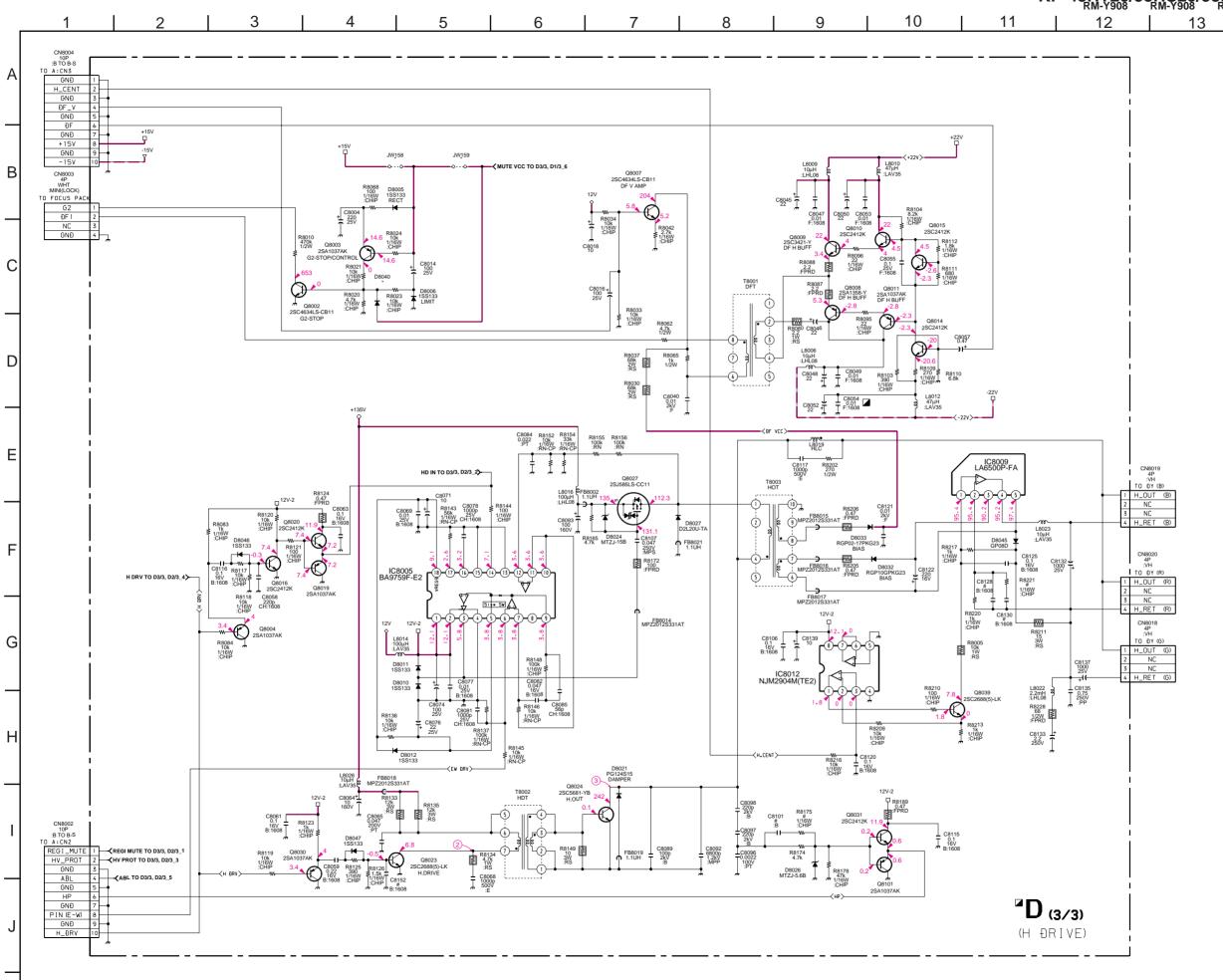




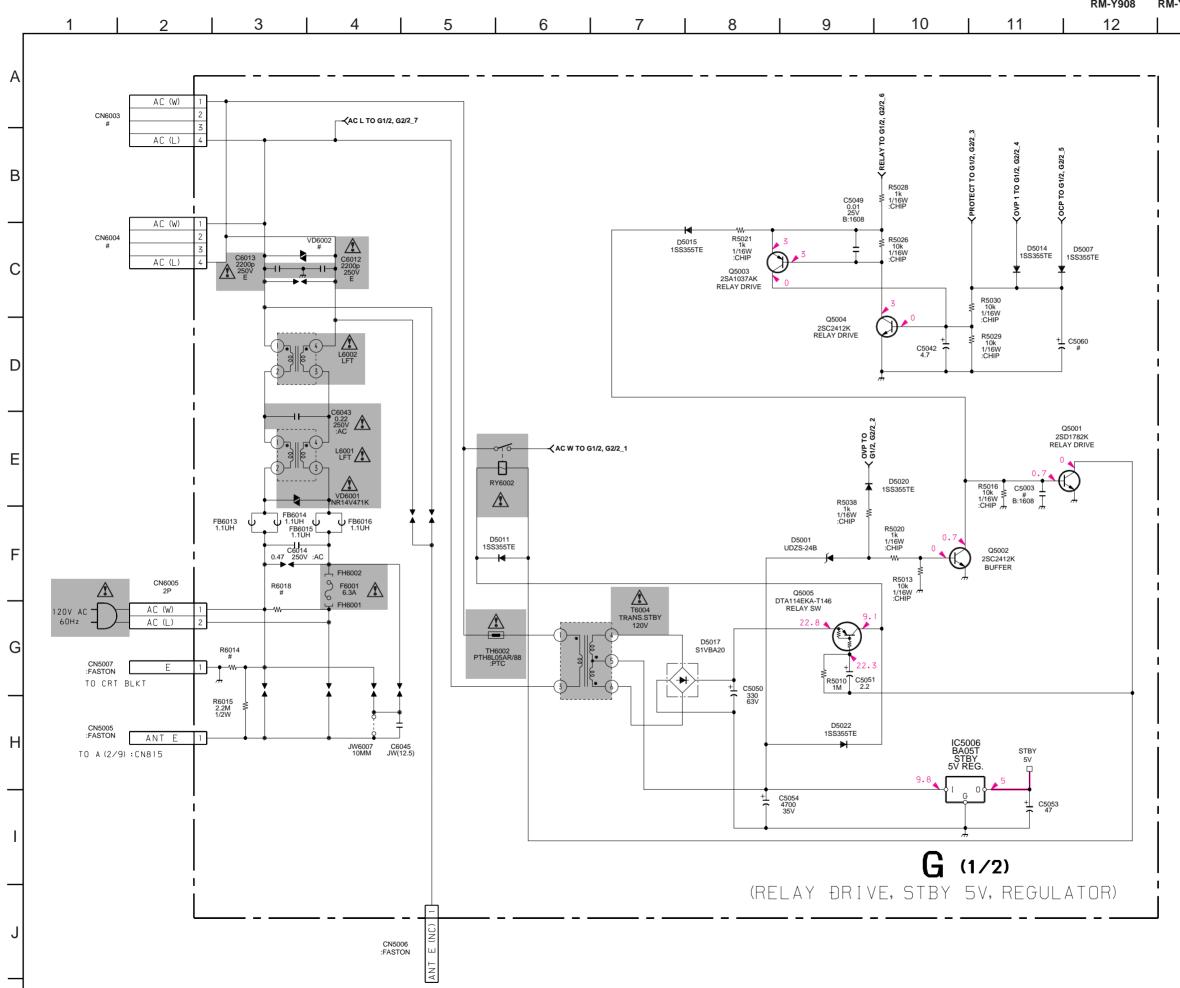


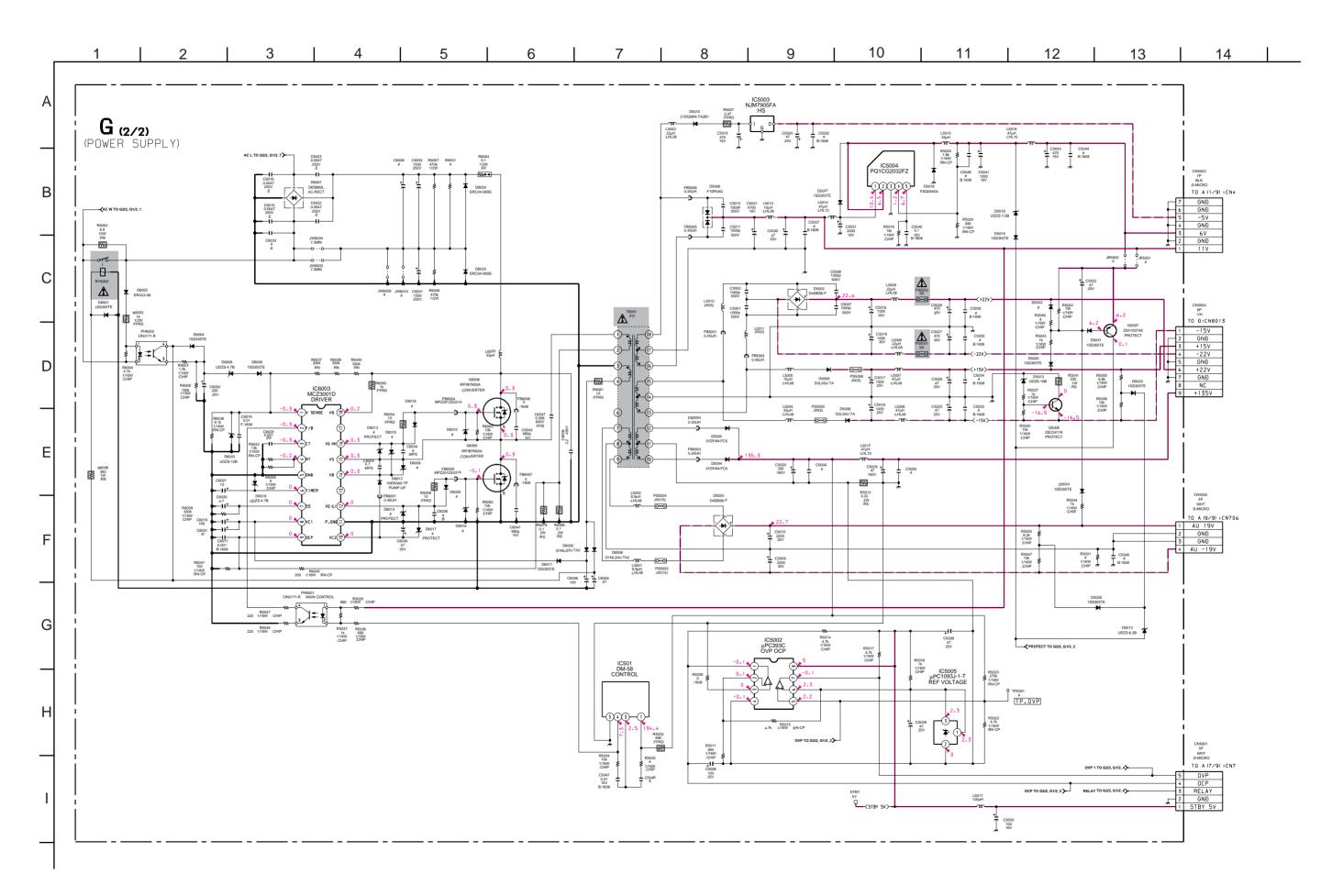


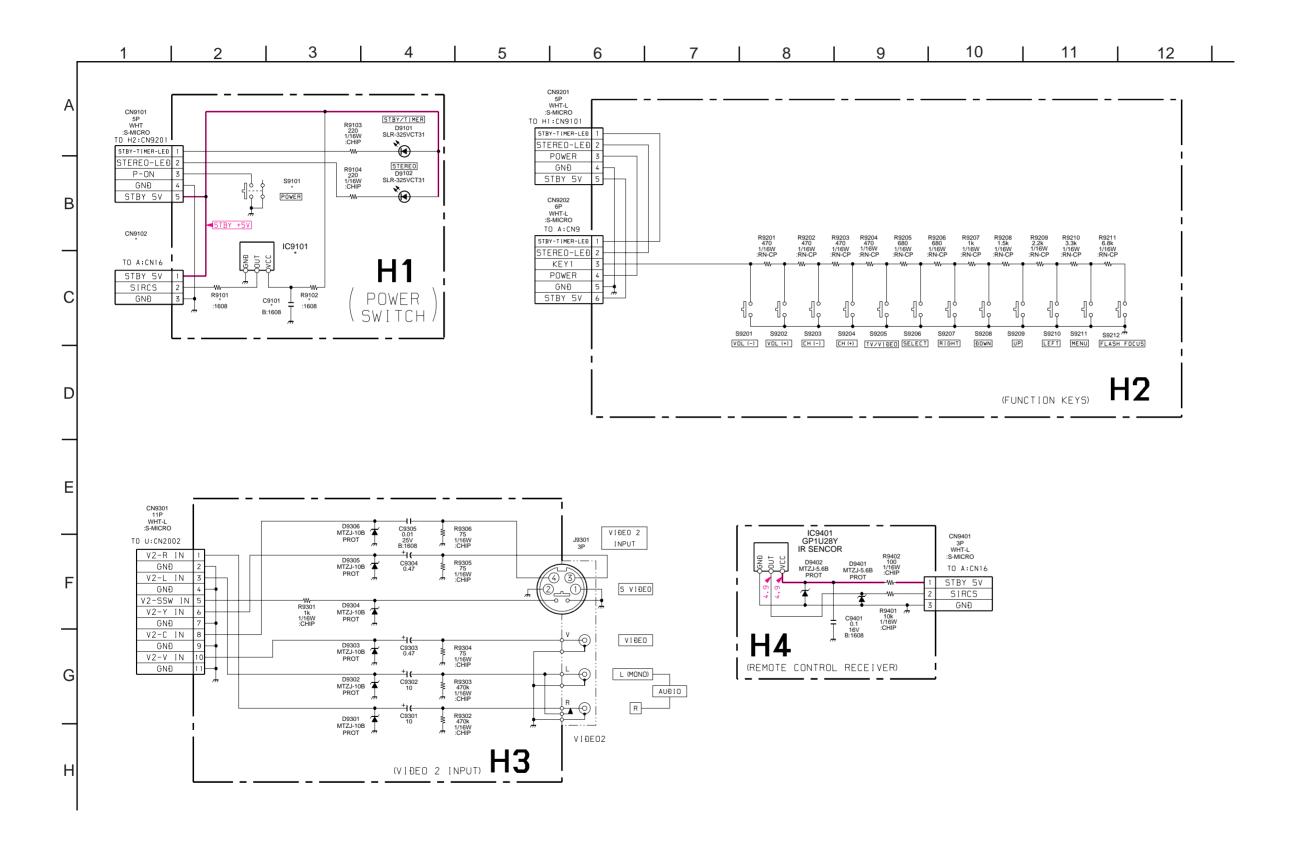


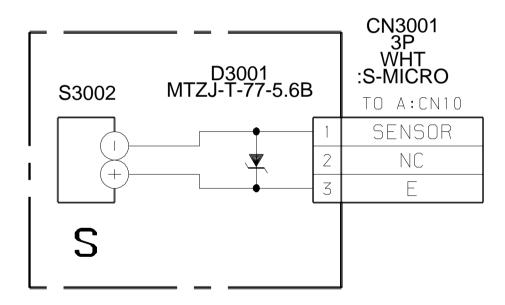


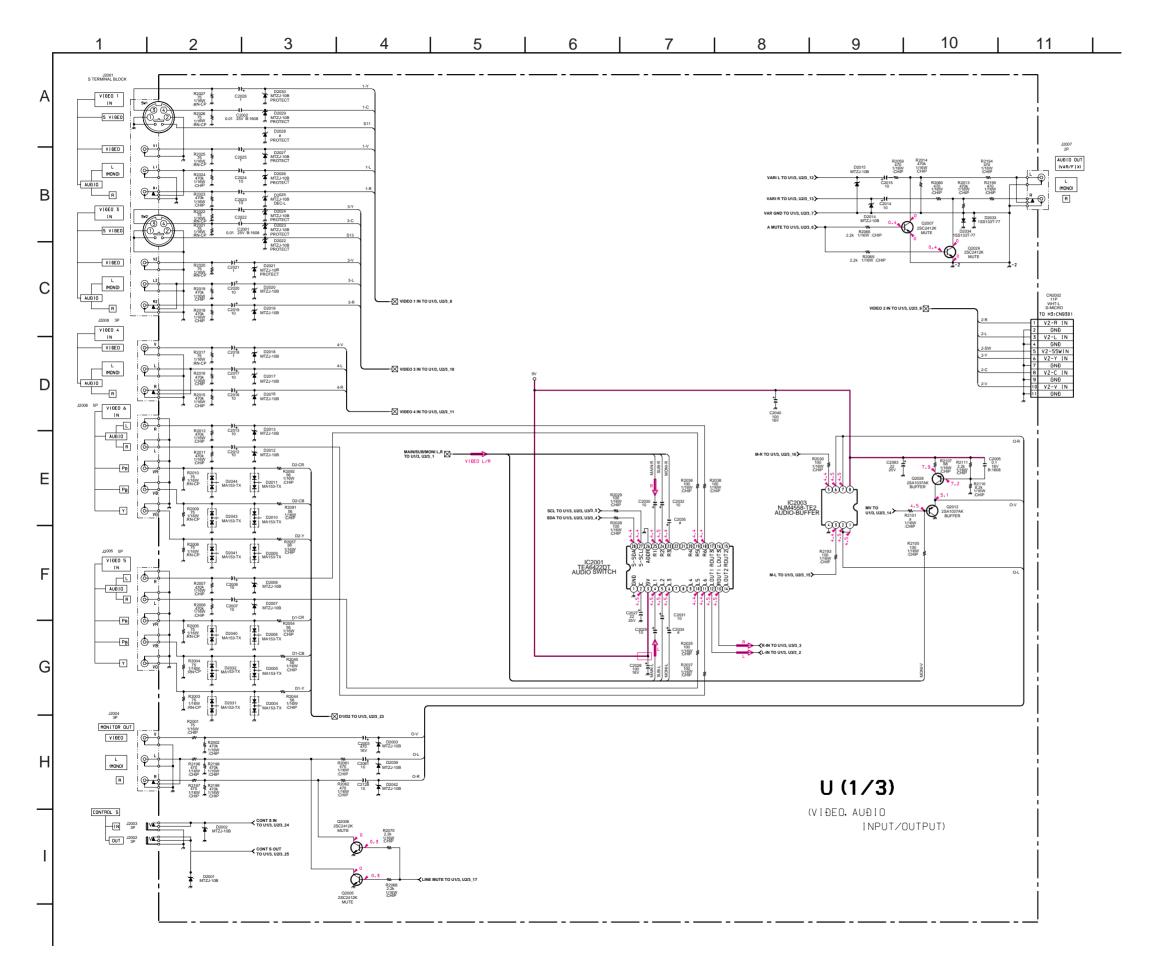
13

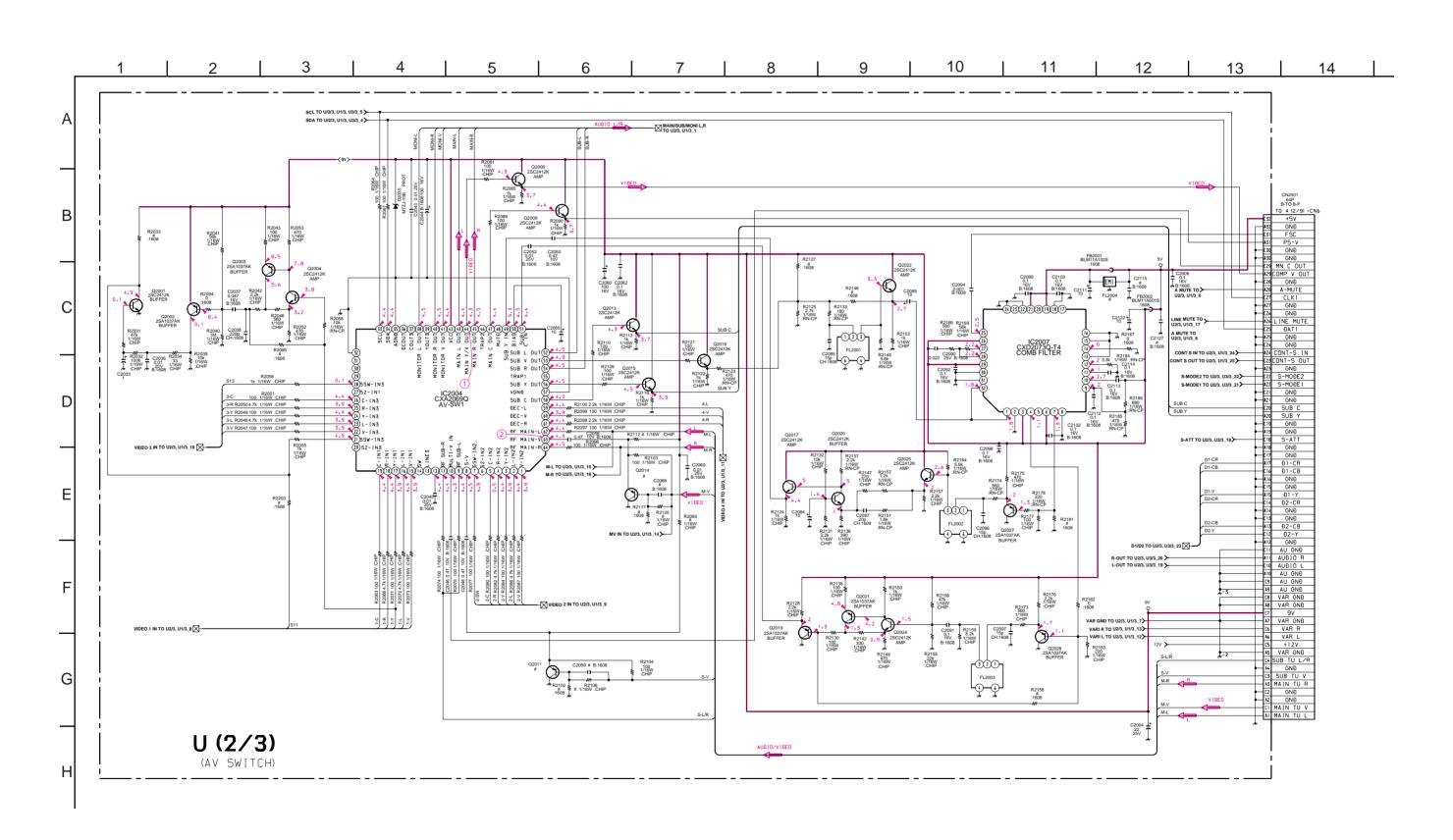


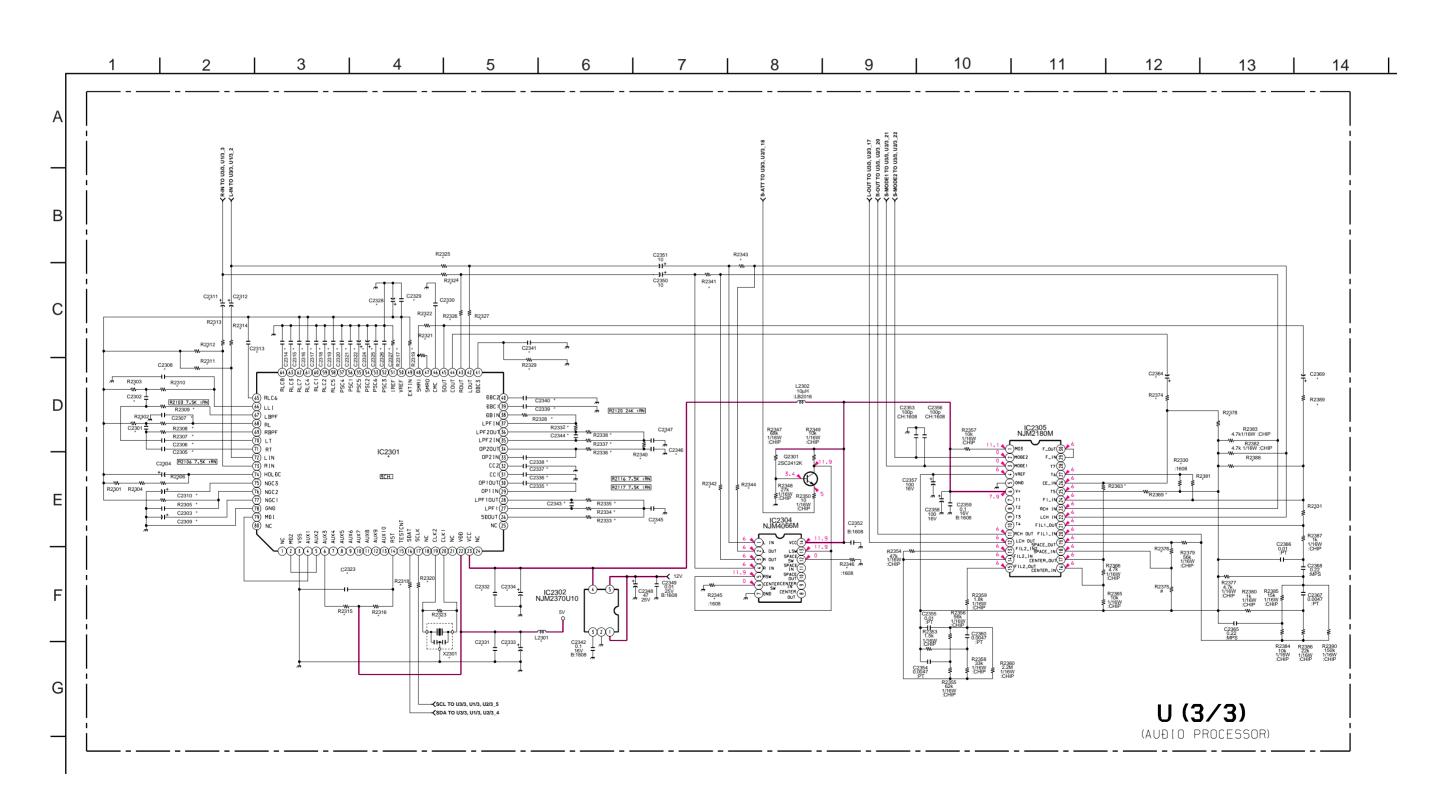


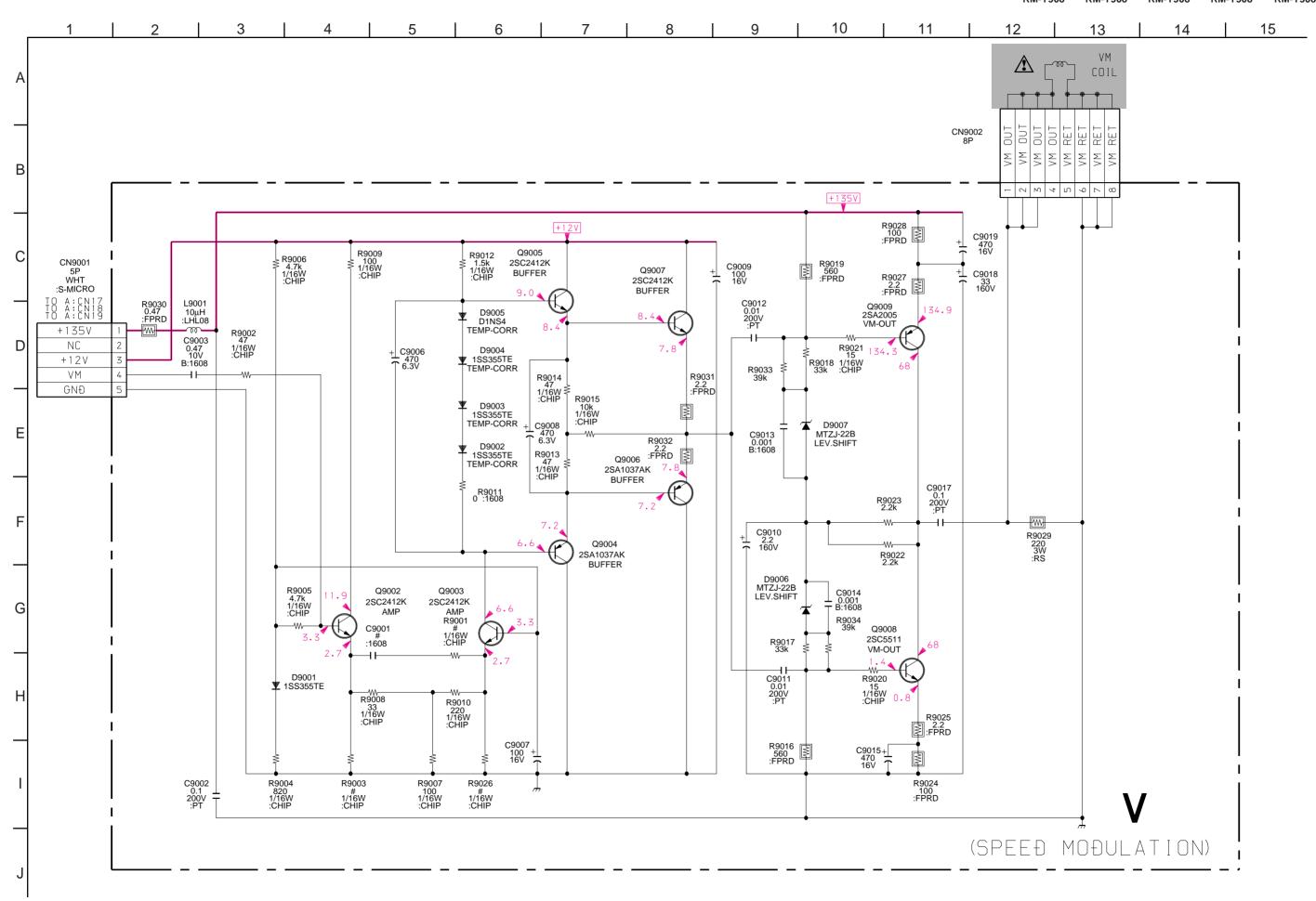




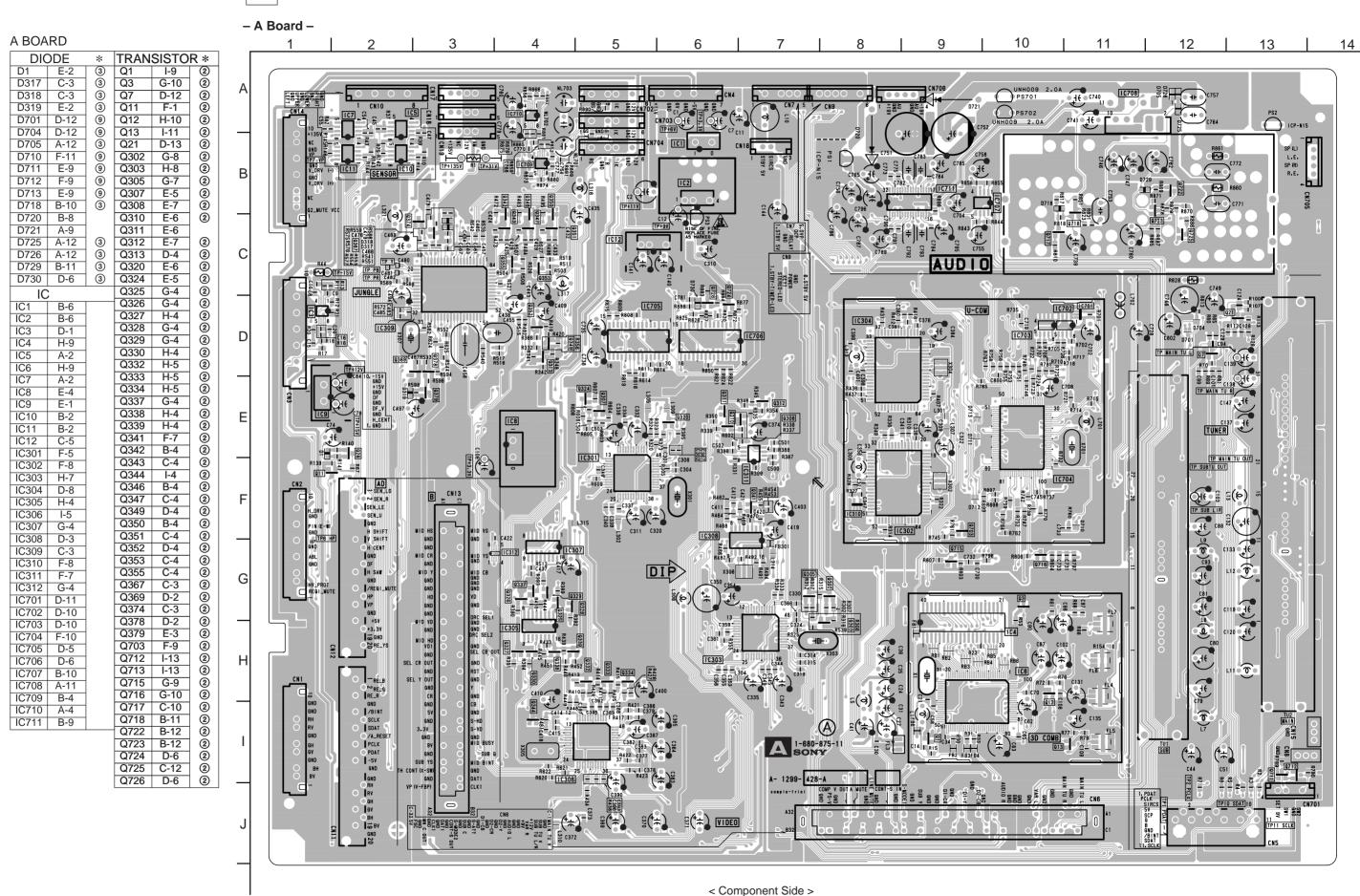








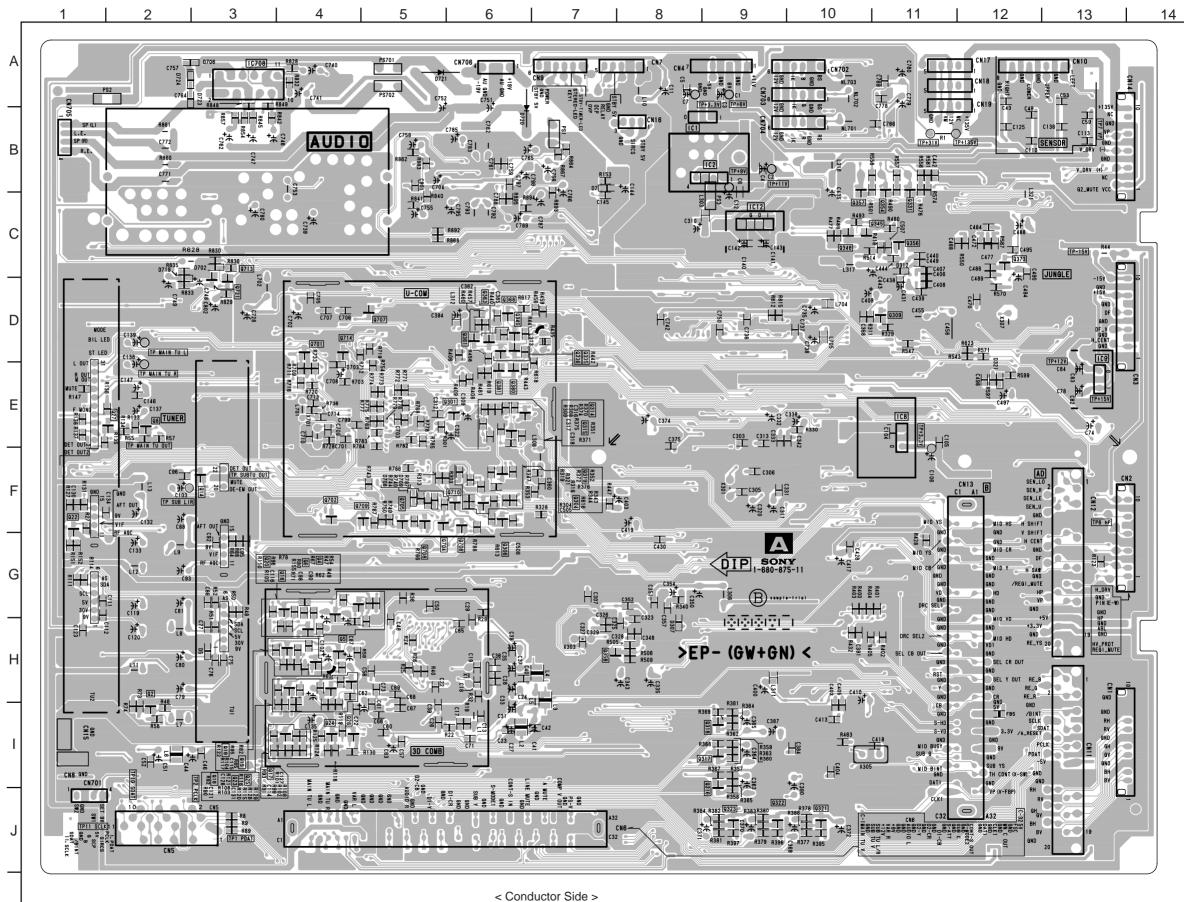
A [TUNER, VIDEO, AUDIO, SYSTEM CONTROL]



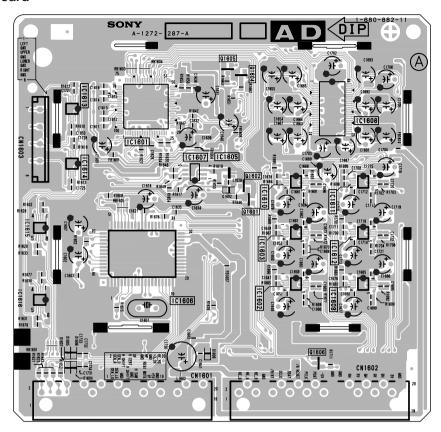
[TUNER, VIDEO, AUDIO, SYSTEM CONTROL]

- A Board -

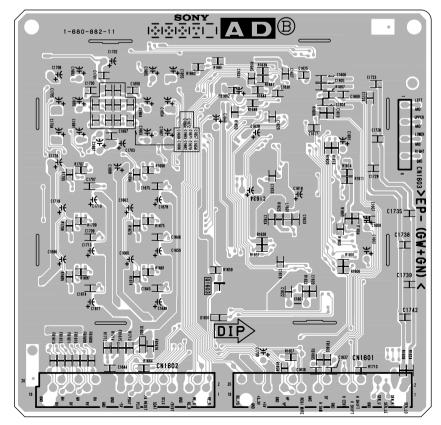
A BOA	RD					
DIC	DDE	*	Q27	E-1	1	
D5	H-3	3	Q28	I-4	1 1	
D7	C-7	3	Q301	E-6	1 1	
D307	H-8	3	Q304	F-6	1 1	
D312	C-11	3	Q306	F-6	1 1	
D321	E-12	3	Q309	D-11	1 1	
D702	C-3	3	Q314	E-6	1 1	
D703	E-4	3	Q315	E-6	1 1	
D706	A-3	33333333333	Q316	J-9	1 1	
D708	F-5	3	Q317	I-9	1 1	
D709	F-5	3	Q318	I-9	1 1	
D719	D-2	(3)	Q319	F-6	1 1	
D720	B-6		Q321	J-10	1 1	
D721	A-5		Q322	J-10	①	
D723	A-3	(3)	Q323	J-9	1 1	
D724	A-3	3	Q331	C-11	1 1	
IC			Q335	D-6	1 1	
IC1	B-8		Q336	D-6	1 1	
IC2	B-9	-	Q340	D-6	1 1	
IC8	E-11		Q345	C-11	1 1	
IC9	E-13	-	Q348	C-10	1 1	
IC12	C-9	-	Q354	C-11 C-11	1 1	
IC708	A-3	-	Q356	C-11	1 1	
			Q357	C-10	1 1	
	SISTO		Q358	H-8	1 1	
Q2	I-2	0	Q361	D-6	1 1	
Q4	G-4	(1)	Q363	D-6	1 1	
Q5	H-4	(1)	Q368	D-6	1 1	
Q6	G-4	0	Q373	C-12	1 1	
Q8	E-2	0	Q380	E-6	1 1	
Q14	F-3	0	Q381	E-6	1 1	
Q15	H-4	(1)	Q701	D-4	1 1	
Q16	H-4	(1)	Q702	F-4	1 1	
Q17	1-4	(1)	Q704	F-5	①	
Q18	H-4	(1)	Q705	F-5	1 1	
Q19	H-4	(1)	Q706	F-6	1 1	
Q20	G-4	(1)	Q707	D-5	①	
Q22	F-1	(1)	Q708	F-5	1 1	
Q23	H-4	(1)	Q709	F-5	1 1	
Q24	1-4	(1)	Q710	F-6	1 1	
Q25	H-4	9999999999999999	Q714	D-4	000000000000000000000000000000000000000	
Q26	I-4	U	Q721	D-3	1	



- AD Board -



< Component Side >

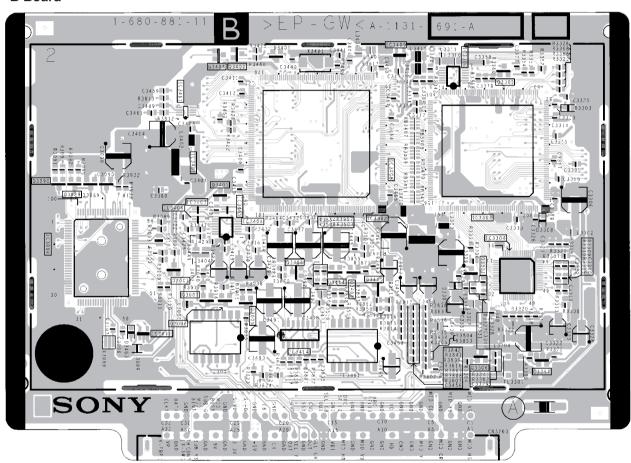


< Conductor Side >

В

[A/D CONVERTER, DRC, MULTI IMAGA DRIVER, MID-U CON, D/A CONVERTER]

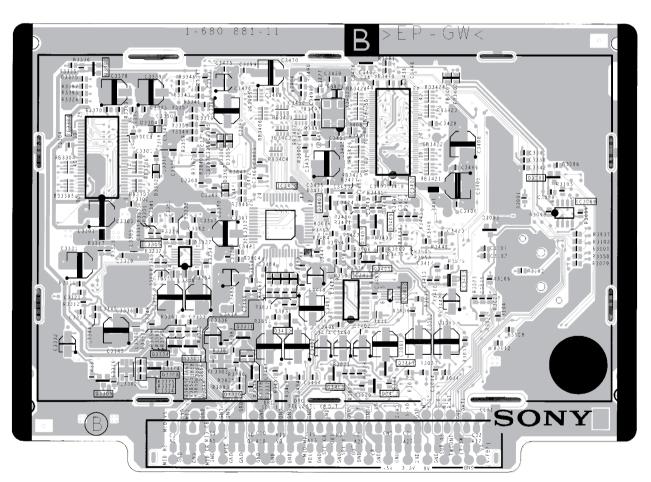
- B Board -



< Component Side >

B [A/D CONVERTER, DRC, MULTI IMAGA DRIVER, MID-U CON, D/A CONVERTER]

- B Board -



< Conductor Side >

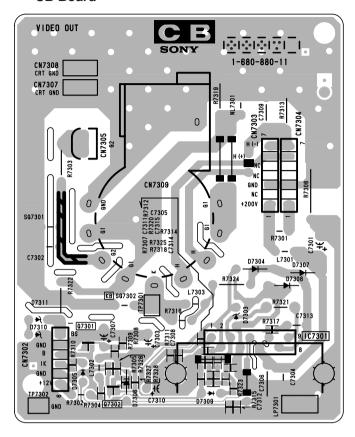
KP-43HT20/53HS20/53HS30/61HS20/61HS30



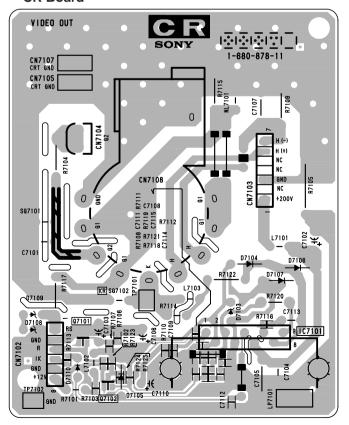




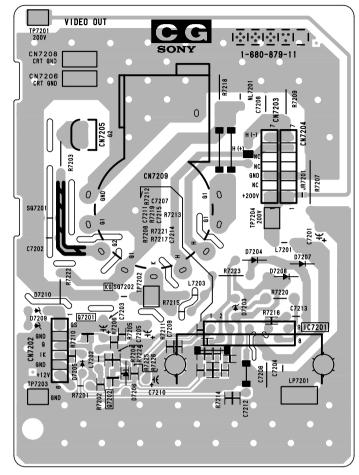
- CB Board -

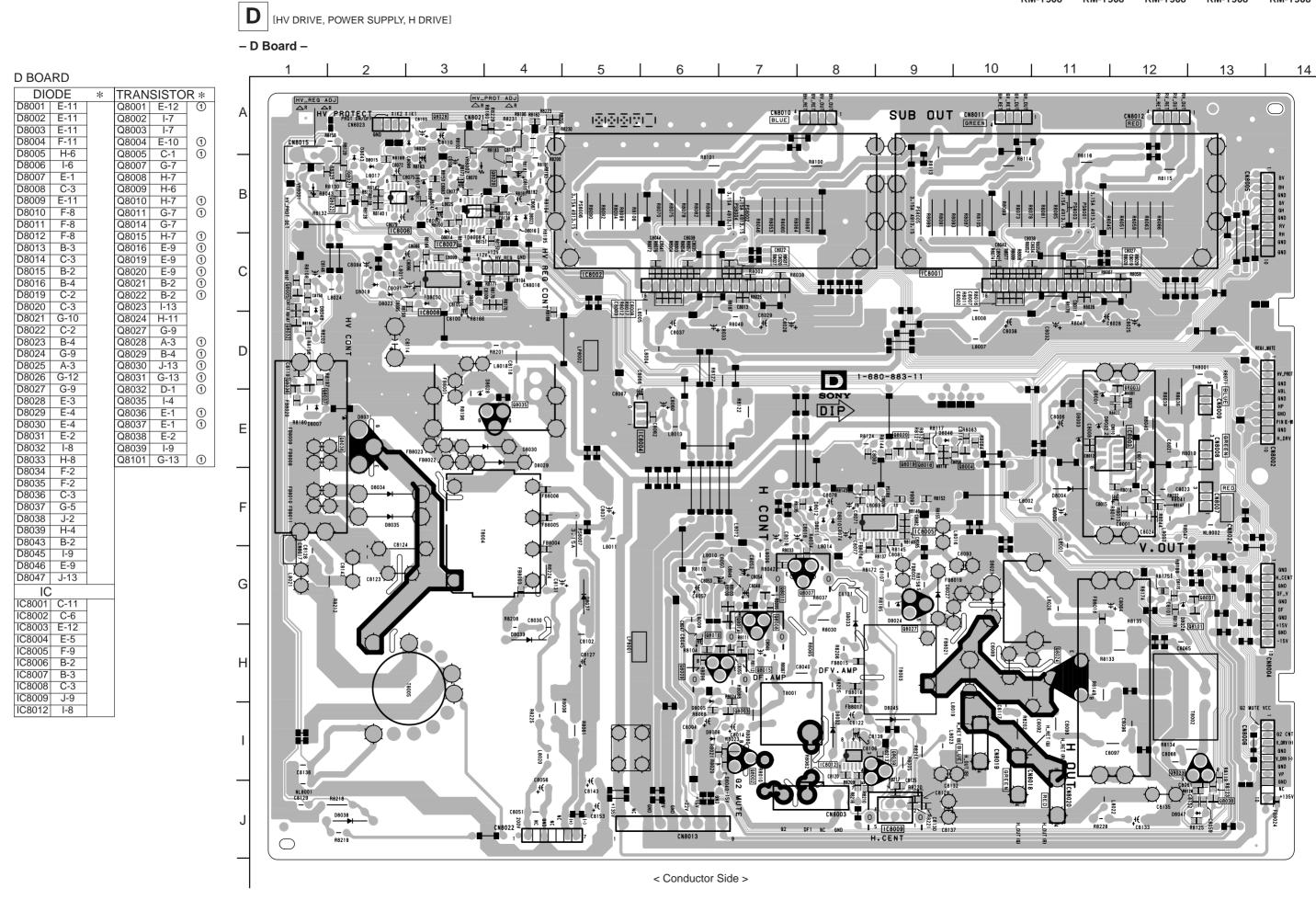


- CR Board -



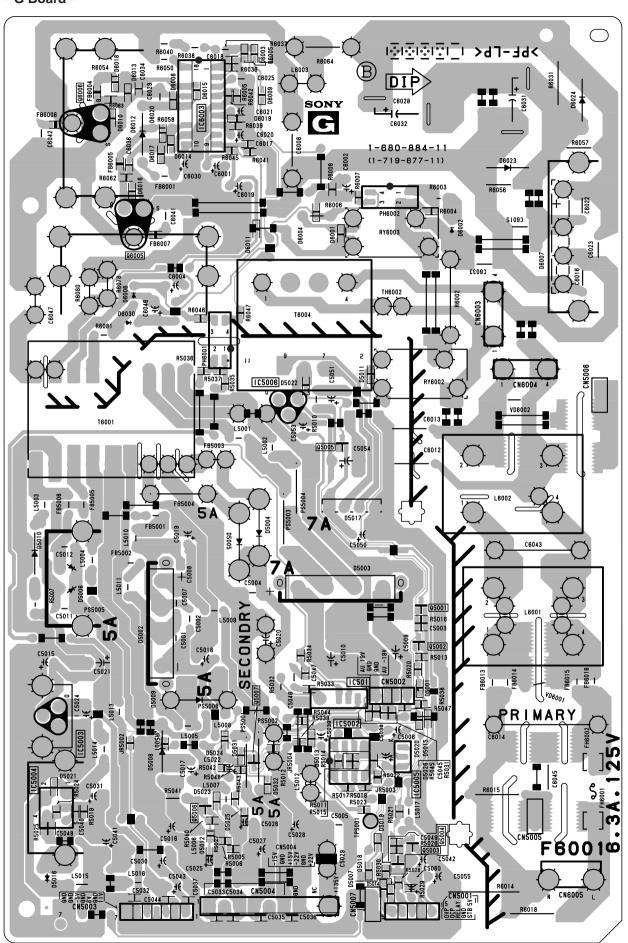
- CG Board -





- G Board -

G



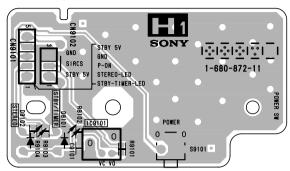




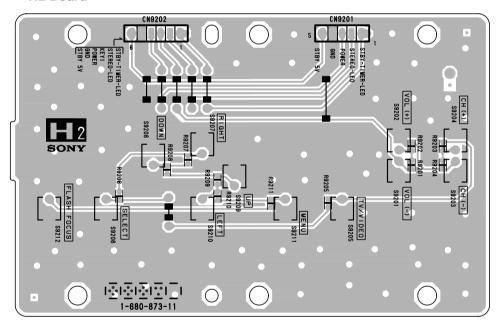


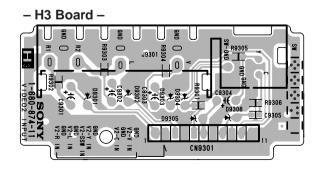


- H1 Board -

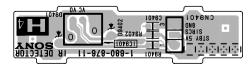


- H2 Board -





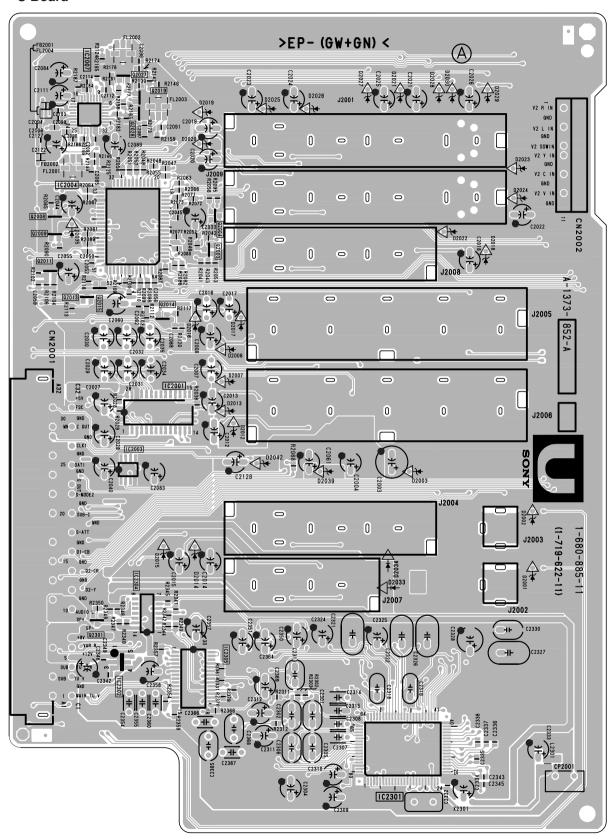
- H4 Board -



U

[VIDEO, AUDIO INPUT/OUTPUT, AV SWITCH, AUDIO PROCESSOR]

- U Board -

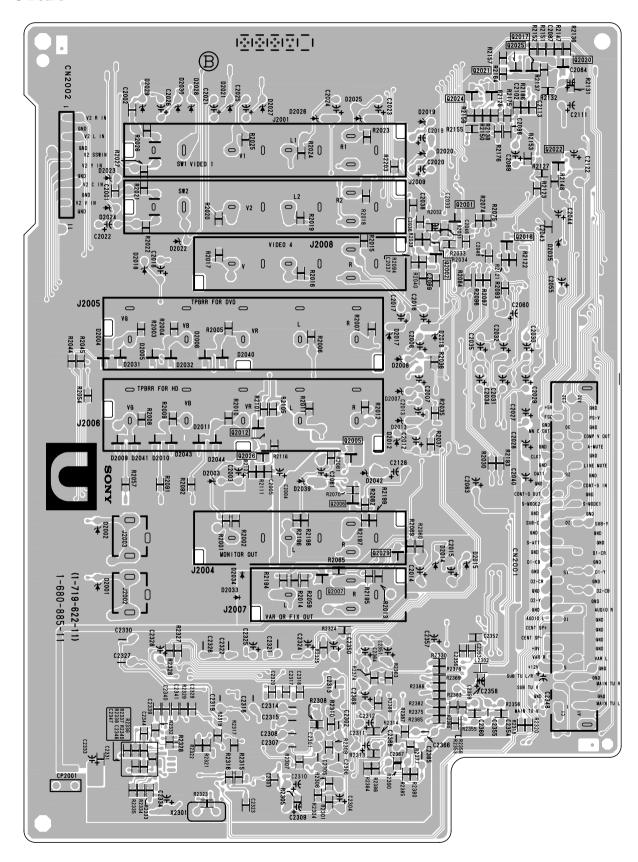


< Component Side >

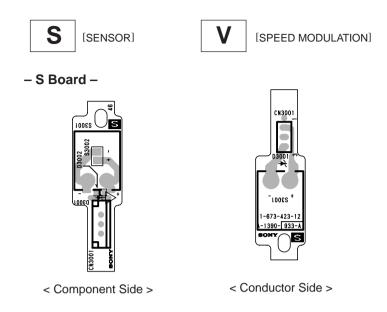
U

[VIDEO, AUDIO INPUT/OUTPUT, AV SWITCH, AUDIO PROCESSOR]

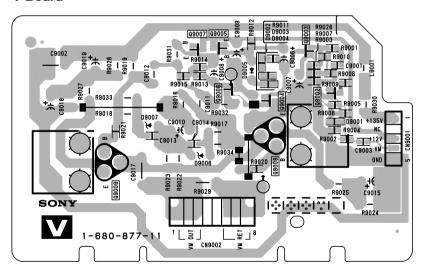
- U Board -



< Conductor Side >

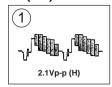


- V Board -

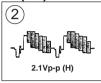


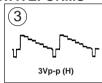
6-5. WAVEFORMS

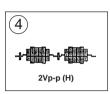
• A(1/9) BOARD WAVEFORMS



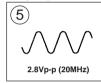
• A(2/9) BOARD WAVEFORMS

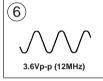


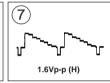


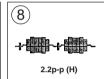


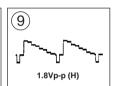
• A(3/9) BOARD WAVEFORMS

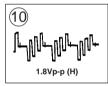


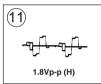


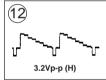


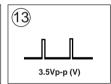




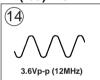




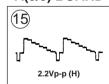


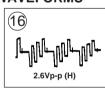


• A(4/9) BOARD WAVEFORMS



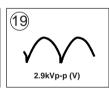
• A(5/9) BOARD WAVEFORMS





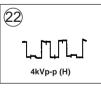




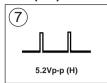


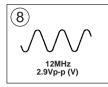


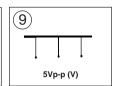




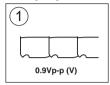
• AD(1/2) BOARD WAVEFORMS

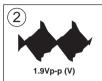


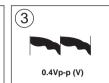


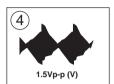


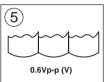
• AD(2/2) BOARD WAVEFORMS

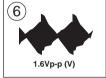




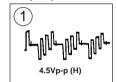


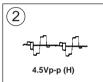


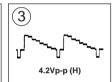


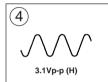


• B(1/4) BOARD WAVEFORMS

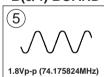




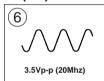




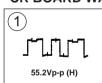
• B(3/4) BOARD WAVEFORMS



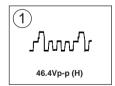
• B(4/4) BOARD WAVEFORMS



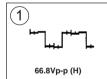
• CR BOARD WAVEFORM



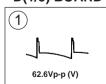
• CB BOARD WAVEFORM



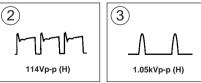
• CG BOARD WAVEFORMS



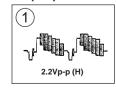
• D(1/3) BOARD WAVEFORMS

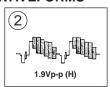


• D(3/3) BOARD WAVEFORMS



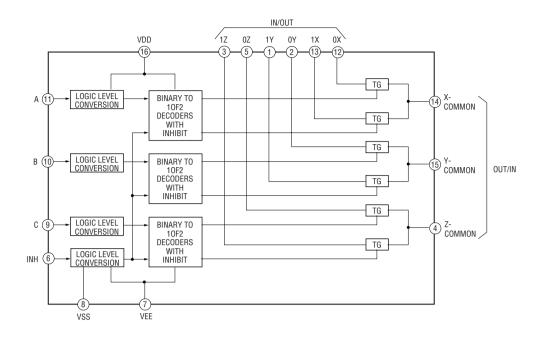
• U(2/3) BOARD WAVEFORMS



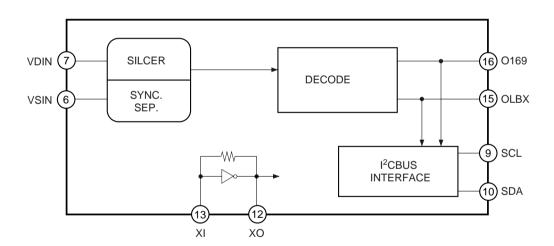


6-6. IC BLOCK DIAGRAMS

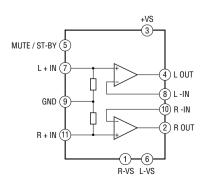
A BOARD: IC305, 307 SN74LV4053ANSR



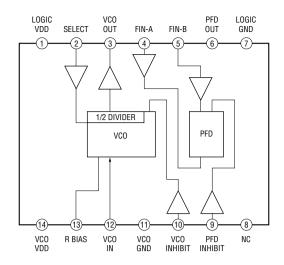
A BOARD: IC308 CXD2085M



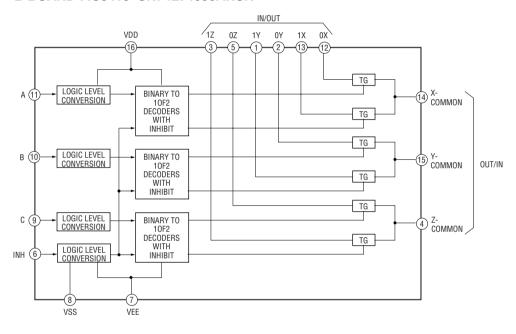
A BOARD : IC708 TDA7265



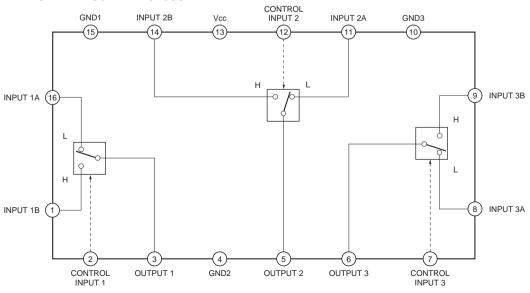
B BOARD: IC3305, 3404 TLC2932IPWR



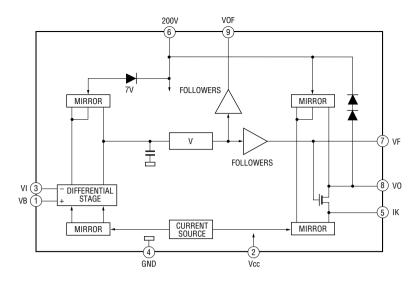
B BOARD: IC3413 SN74LV4053ANSR



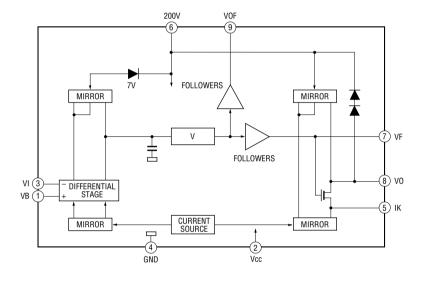
B BOARD: IC3414 M52055P



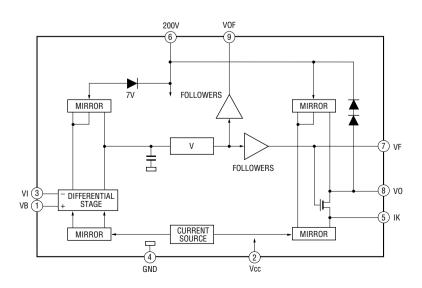
CR BOARD : IC7101 TDA611Q/N4



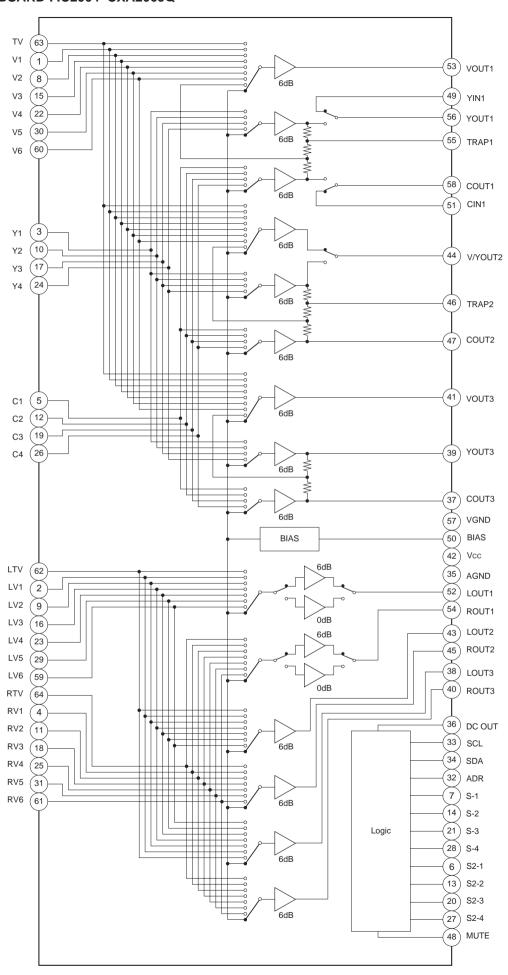
CG BOARD: IC7201 TDA611Q/N4



CB BOARD : IC7301 TDA611Q/N4

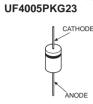


U BOARD: IC2004 CXA2069Q



6-7. SEMICONDUCTORS

1SS83TD 21DP05 D1NL40-TR2 D1NS4 D2L20U EL1Z GP08DPKG23 RD10ES-B2 RD15ES-B2 RD18ES-B2 RD20ES-B2 RD5.6ES-B2 RGP02-17EL-6433



1SS133T-77 30DF4N-FC5 ERC04-06SE ERC91-02



1SS226



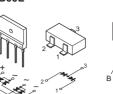
1S355TE-17 DTZ-10B DTZ-TT11-6.8B UDZS-TE-17-7.5B UDZ-TE-17-10B UDZS-TE-17-18B UDZS-TE-17-22B UDZS-TE-17-24B UDZS-TE-17-3.9B UDZS-TE-17-33B UDZS-TE-17-4.7B UDZS-TE-17-5.1B UDZS-TE-17-5.6B UDZS-TE-17-6.2B UDZS-TE-17-9.1B



D1NL20U-TR



D4SBS4-F D6SB60L



DAN202K-T-146



DAN202U



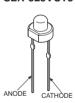
DAP202K



MTZJ-T-77-13 MTZJ-T-77-22B



SLR-325VCT31



BA033T NJM7812FA TA7812S



BA05T



BA9759F-E2



BH3868BFS-E2



32pin SOP

TOP VIEW



48pin SOP

CM0017AF



120pin QFP

CXA2151Q CXD2013Q-T6



CXD2073Q-T4



32pin QFP



CXA1726AM NJM2180M



CXA2069Q CXP85840A-039Q CXP86448-635Q CX2150AQ



DM-58



MARKING SIDE VIEW • pin 1 ~ N • Mt (one side, both side)

14pin DIP



M24C08-MN6T M24C32-WMN6T NJM2068V NJM2904M UPC4558G2



8pin SOP M306V2ME-175FP UPD64082GF-3BA



MSM514265C-60JS AAAAAAAAAA

THE STREET

40pin SOP



NJM2395AF05 PQ09RF21



NJM2903M UPC393C



NJM7905FA



PQ1CG2032FZ



PST9143NL PST9145NL



5pin CHIP



TC7W08FU(TE12R)



TDA6111Q / N4



TDA7265



TEA6422DT



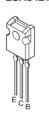
TLC2933IPWR



UPC1093J-1-T



2SA1358-Y 2SA3421-Y



2SA1037AK-T146R 2SA1226-T1E3E4 2SC1623-L516 2SD601A-QRS-TX DTC114EKA-T146 DTC144EKA-T146



2SC5511

2SA2005

2SC2688-LK



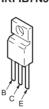
2SC4634LS-CB11



2SK2036(TE85L)



IRFIB7N50A



SECTION 7 EXPLODED VIEWS

NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

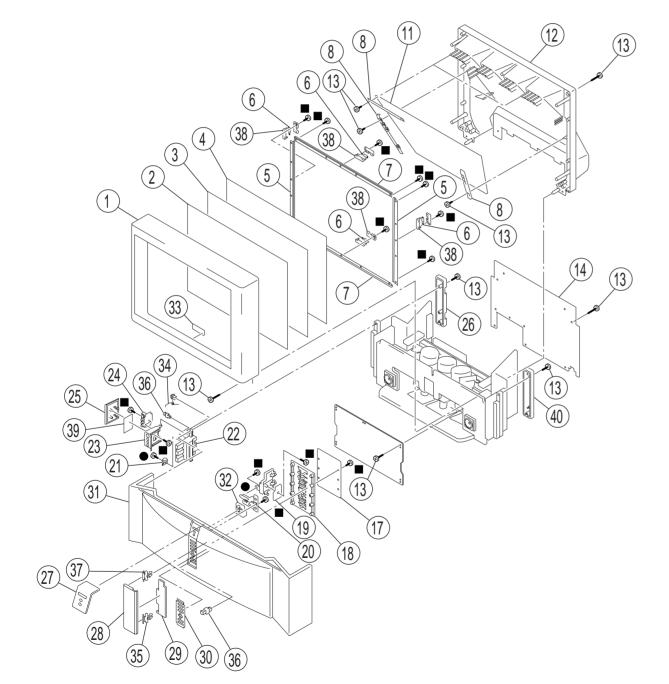
The components identified by shading and mark \triangle are critical for safety.

Replace only with part number specified.

Les composants identifies par une trame et une marque $\underline{\Lambda}$ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

7-1. COVER (KP-43HT20)

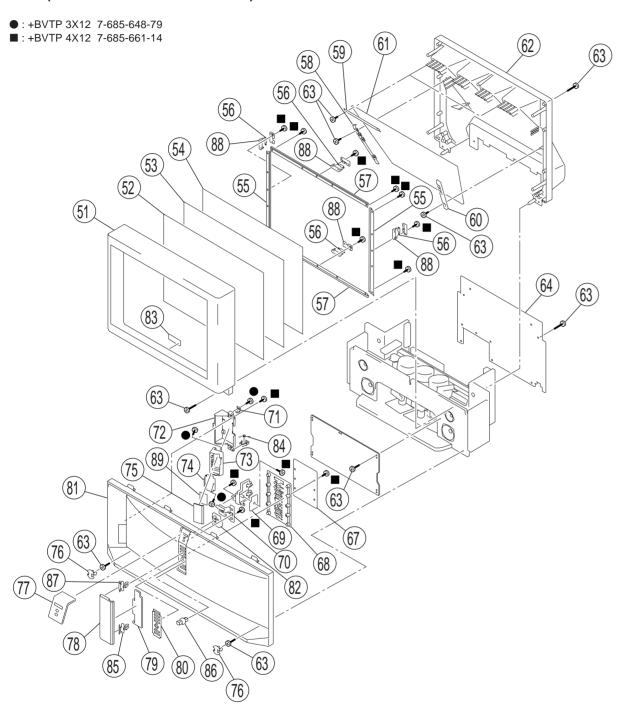
- ●:+BVTP 3X12 7-685-648-79
- ■:+BVTP 4X12 7-685-661-14



KP-43HT20/53HS20/53HS30/61HS20/61HS30

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
1	X-4038-924-1	BEZNET (43) ASSY		25	4-082-300-11	DOOR, SIDE TERMINAL	
2		SCREEN (43), CONTRAST		26		CAP (L), SPEAKER GRILLE	
3		PLATE (L), DIFFUSION		27		PANEL, FRONT	
4	4-070-285-11	PLATE (43F), DIFFUSION		28	4-082-281-11	DOOR, CONTROL	
	* 4-070-333-21	HOLDER (S), SCREEN NC		29	4-082-282-01	COVER, CONTROL DOOR	
6	* A-1391-148-A	S BOARD, COMPLETE		30	4-082-291-01	LABEL, CONTROL	
	* 4-070-332-31	HOLDER (L), SCREEN NC		31	X-4039-087-1	GRILLE ASSY, SPEAKER	
8	* 4-081-501-01	HOLDER, MIRROR		32	4-082-286-01	GUIDE, LED	
11	4-082-889-01	MIRROR (43)		33	* A-1372-934-A	A H4 BOARD, COMPLETE	
12	* 4-081-500-01	COVER (43), MIRROR		34	4-083-694-01	SPRING, DOOR	
13	4-081-063-01	SCREW,DOME WASHER HEX TAI	4X20	35	3-703-035-11	SHAFT, LID	
14	* 4-083-696-01	BOARD, REAR		36	4-042-192-01	CATCHER, PUSH	
17	* A-1372-932-A	H2 BOARD, COMPLETE		37	4-045-250-01	DAMPER	
18	4-082-284-01	BUTTON, MULTI		38	* 4-069-680-01	BRACKET (B), SENSOR	
19	* A-1377-001-A	H1 BOARD, COMPLETE		39	4-082-290-01	LABEL, FRONT TERMINAL	
20	4-082-283-01	BUTTON, POWER		40	4-082-299-01	CAP (R), SPEAKER GRILLE	
21	4-919-393-01	DAMPER					
22	4-082-302-01	HOLDER, SIDE TERMINAL					
23	4-082-301-01	BRACKET, H3					
24	* A-1372-933-A	H3 BOARD, COMPLETE	I				

7-2. COVER (KP-53HS20/HS30/61HS20/HS30)



KP-43HT20/53HS20/53HS30/61HS20/61HS30

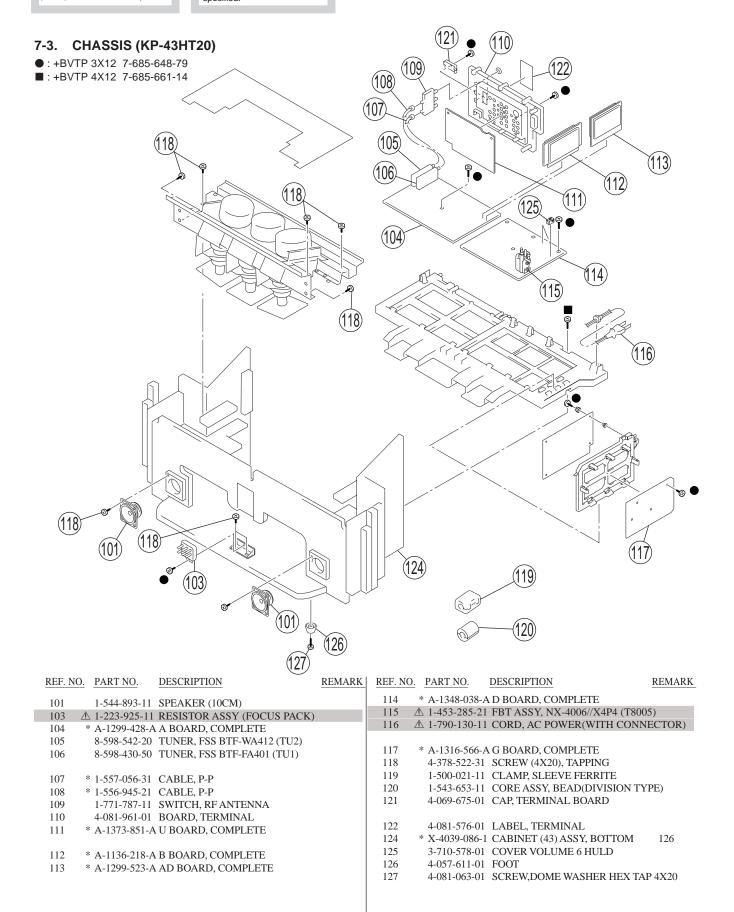
REF. NO	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
51	X-4038-910-3	BEZNET ASSY (61) (61HS20,61HS	30)	67	* A-1372-932-A	A H2 BOARD, COMPLETE	
		BEZNET (53) ASSY (53HS30)	/	68		BUTTON, MULTI	
	X-4039-160-1	BEZNET (53) ASSY (53HS20)		69	* A-1377-001-A	H1 BOARD, COMPLETE	
52	4-081-065-11	SCREEN (53), CONTRAST (53HS2	0,53HS30)	70	4-082-283-01	BUTTON, POWER	
	4-081-067-11	SCREEN (61), CONTRAST (61HS2	0,61HS30)	71	4-919-393-01	DAMPER	
53		PLATE (L), DIFFUSION (61HS20,6	/ 1	72		HOLDER, FRONT TERMINAL	
	4-070-525-01	PLATE (L), DIFFUSION (53HS20,5	3HS30)	73	4-082-288-01	BRACKET, H3	
54	4-084-702-11	PLATE (F), DIFFUSION (53HS20,5	3HS30)		* A-1372-933-A	A H3 BOARD, COMPLETE	
		PLATE (61FV), DIFFUSION (61HS		75		DOOR, FRONT TERMINAL(53HS	,
		HOLDER (S), SCREEN YC (53HS3			4-082-287-21	DOOR, FRONT TERMINAL(53HS	20,61HS20)
		HOLDER (S), SCREEN NC (53HS2	′				
		HOLDER (S), SCREEN YC (61HS3)	/	76		SCREW CAP, GRILLE	
	* 4-070-335-01	HOLDER (S), SCREEN NC (61HS2	0)	77		PANEL, FRONT	
				78		DOOR, CONTROL	
		S BOARD, COMPLETE		79		COVER, CONTROL DOOR	
		HOLDER (L), SCREEN YC (53HS3		80	4-082-291-01	LABEL, CONTROL	
		HOLDER (L), SCREEN YC (61HS3	′				
		HOLDER (L), SCREEN NC (53HS2	′	81		GRILLE ASSY, SPEAKER (61HS20	/
	* 4-070-332-02	HOLDER (L), SCREEN NC (61HS2	0)			GRILLE ASSY, SPEAKER (53HS30	/
						GRILLE ASSY, SPEAKER (61HS30	/
		HOLDER (L), MIRROR (61HS20,61	/			GRILLE ASSY, SPEAKER (53HS20	0)
		HOLDER (SL), MIRROR (53HS20,5	/	82	4-082-286-01	GUIDE, LED	
		HOLDER (TOP), MIRROR (61HS20					
		HOLDER (TOP), MIRROR (53HS20	,/			A H4 BOARD, COMPLETE	
		HOLDER (R), MIRROR (61HS20,6	/	84		SPRING, DOOR	
	* 4-081-505-01	HOLDER (SR), MIRROR (53HS20,	53HS30)	85	3-703-035-11	SHAFT, LID	
				86		CATCHER, PUSH	
61		MIRROR, REFLECTION (53HS20,5		87	4-045-250-01	DAMPER	
	4-070-922-01	MIRROR, REFLECTION (61HS20,	51HS30)				
		COVER, MIRROR (61HS20,61HS30	· /			BRACKET (B), SENSOR	
		COVER, MIRROR (53HS20,53HS30	/	89	4-082-290-01	LABEL, FRONT TERMINAL	
63	4-081-063-01	SCREW,DOME WASHER HEX TAI	P 4X20				
64		BOARD, REAR (53HS20,53HS30)					
	* 4 002 606 01	DOLDD DELD (CHICAG CHICAG)					

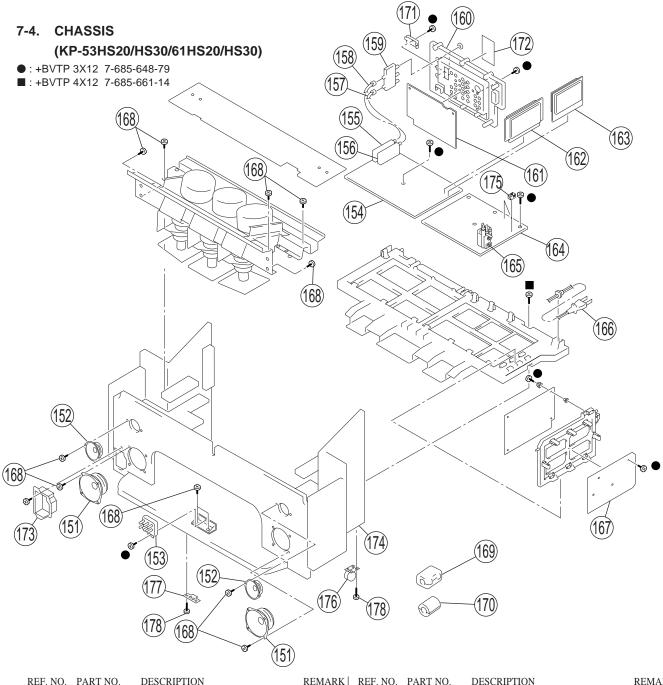
* 4-083-686-01 BOARD, REAR (61HS20,61HS30)

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The components identified by shading and mark \triangle are critical for safety.

Replace only with part number specified.

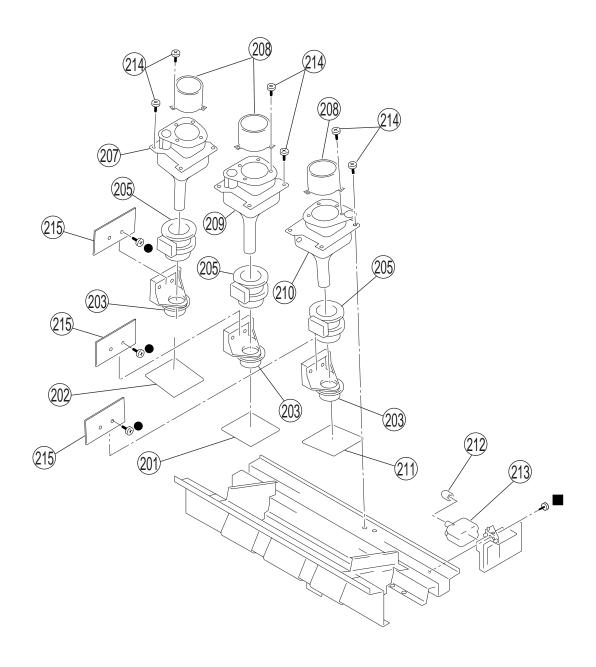




REF. N	O. PART NO.	DESCRIPTION	REMARK	REF. NO	PART NO.	DESCRIPTION	REMARK
151	1 544 940 11	CDEAKED (12CM)		1	A 4 500 400 44	GODD I G DOWNED WINNING GOVE	TECTOR)
151		SPEAKER (13CM)				CORD, AC POWER(WITH CONN	NECTOR)
152	1-529-403-11	SPEAKER (6.6CM)		167	* A-1316-566-A	G BOARD, COMPLETE	
153	△ 1-223-925-1	RESISTOR ASSY (FOCUS PACK)		168	4-378-522-31	SCREW (4X20), TAPPING	
154	* A-1299-428-	A A BOARD, COMPLETE		169	1-500-021-11	CLAMP, SLEEVE FERRITE	
155	8-598-542-20	TUNER, FSS BTF-WA412 (TU2)		170	1-543-653-11	CORE ASSY, BEAD(DIVISION TY	YPE)
156	8-598-430-50	TUNER, FSS BTF-FA401 (TU1)		171	4-069-675-01	CAP, TERMINAL BOARD	
157	* 1-557-056-31	CABLE, P-P		172	4-081-576-01	LABEL, TERMINAL	
158	* 1-556-945-21	CABLE, P-P		173	* 4-083-506-01	COVER, CABINET (HS)	
159	1-771-787-11	SWITCH, RF ANTENNA		174	* X-4039-049-1	CABINET (53) ASSY, BOTTOM	
160	4-081-961-01	BOARD, TERMINAL				(53HS20,53HS	30) 176, 177
					* X-4039-084-1	CABINET ASSY, BOTTOM	
161	* A-1373-851-	A U BOARD, COMPLETE				(61HS20.61HS	30) 176, 177
162	* A-1136-218-	A B BOARD, COMPLETE				(3.37)	,,
163	* A-1299-523-	A AD BOARD, COMPLETE		175	3-710-578-01	COVER VOLUME 6 HULD	
164	* A-1348-038-	A D BOARD, COMPLETE		176	4-040-755-01	CASTER (DIA. 30)	
165	△ 1-453-285-2	FBT ASSY, NX-4006//X4P4 (T8005	5)	177		FOOT, PLASTIC	
		,	,	178		SCREW,DOME WASHER HEX TA	P 4X20
			ı	1,0	1 001 003 01	BERE 11, BOINE WIGHER HEAT	11 12120

7-5. PICTURE TUBE

●:+BVTP 3X12 7-685-648-79 ■:+BVTP 4X12 7-685-661-14



REF. NO. PART NO. DESCRIPTION REMA	RK REF. NO. PART NO. DESCRIPTION REMARK
201 * A-1332-159-A CG BOARD, COMPLETE	
202 * A-1332-158-A CR BOARD, COMPLETE	209
203 ⚠ 1-451-535-11 COIL ASSY, VM	210
205	(53HS20,53HS30)
	⚠ A-1501-979-A COUPLER (B) ASSY CRT
207	(61HS20,61HS30)
(53HS20,53HS	△ A-1501-981-A COUPLER (B) ASSY, CRT (43HT20)
⚠ A-1501-978-A COUPLER (R) ASSY CRT	
(61HS20,61HS	80) 211 * A-1332-160-A CB BOARD, COMPLETE
⚠ A-1501-980-A COUPLER (R) ASSY, CRT (43HT20)	212 4-373-137-01 CAP (Z), RUBBER
208 4-040-131-21 LENS (LINNIT POINT 6) (61HS20,61HS30)	213
4-056-258-11 LENS (DELTA 78) (43HT20,53HS20,53HS3	0) 214 4-052-894-01 SCREW (4X20), HEAD TAPPING
	215 * A-1342-598-A V BOARD, COMPLETE

SECTION 8 ELECTRICAL PARTS LIST



The components identified by shading and mark $\underline{\Lambda}$ are critial for safety. Replace only with part number specified.

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When indicating parts by reference number, please include the board name.

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS

- · All resistors are in ohms
- F: nonflammable

- CAPACITORS PF : μμ F
- There are some cases the reference number on one board overlaps on the other board. Therefore, when ordering parts by the reference number, please include the board name.

REF. NO.	PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTION			REMAR
3	* A-1332-158- <i>A</i>	A CR BOARD, COMP						< COIL >			
						L7101	1-414-223-11	INDUCTOR	470UH		
	4-382-854-11	SCREW (M3X10), F	2 SW (+)			L7102		INDUCTOR	47UH		
	. 002 00 . 11	50112 (((((((((((((((((((((((((((((((((((, 5 (.)			L7103	1-414-181-11		4.7UH		
		< CAPACITOR >				2,100	1	11.2001011			
		Chiricitons						< NEON LAMP >			
C7101	1-104-570-11	CERAMIC	0.001UF	10%	2KV						
C7102	1-107-662-11		22UF	20%	250V	NL7101	1-517-778-21	LAMP, NEON			
C7103	1-126-964-11		10UF	20%	50V			,			
C7104	1-161-830-00		0.0047UF	500V				< TRANSISTOR >	•		
C7105	1-102-050-00		0.01UF	99%	500V						
0,100	1 102 000 00	ozna maro	0.0101	,,,,		O7101	8-729-026-49	2SA1037AK-T146	-R		
C7106	1-126-768-11	ELECT	2200UF	20%	16V	Q7102	8-729-422-27				
C7107	1-162-115-00		330PF	10%	2KV						
C7108			0.1UF	10%	16V			< RESISTOR >			
C7109			0.1UF	10%	16V						
C7110	1-126-967-11		47UF	20%	50V	R7102	1-216-813-11	RES-CHIP	220	5%	1/16W
0,110	1 120 707 11	EEE01	., 01	2070		R7103	1-216-864-11	SHORT	0		
C7112	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	R7104	1-260-132-11		560K	5%	1/2W
C7113	1-102-157-00		560PF		500V	R7105	1-219-743-11		100	5%	1/2W
C7114			7PF		PF50V	R7106		METAL CHIP	8.2K		1/16W
C7115			2PF		PF50V	11,100	1 210 / 1 . 11		0.211	0.070	1,1011
C/113	1-102-707-11	CLICAIVIIC CIIII	211	0.231	1301	R7107	1-218-716-11	METAL CHIP	10K	0.5%	1/16W
C7116	1-107-504-11	CERAMIC	10PF		500V	R7108	1-216-823-11		1.5K	5%	1/16W
C/110	1 107 304 11	CLIMINIC	1011		300 1	R7109	1-260-133-11		680K	5%	1/2W
		< CONNECTOR >				R7110		METAL CHIP	5.6K		1/16W
		< CONNECTOR >				R7111		METAL CHIP	12K		1/16W
CN71028	£ 1_56/L_509_11	PLUG, CONNECTO)P 6P			10,111	1 210 / 10 11		1211	0.070	1, 10 , ,
		PLUG, CONNECTO				R7112	1-218-706-11	METAL CHIP	3.9K	0.5%	1/16W
		CONNECTOR, ONE				R7113	1-216-813-11		220	5%	1/16W
		TAB (CONTACT)	L TOUCH			R7114	1-249-424-11		3.9K	5%	1/4W
C11/103	1-075-715-11	IAB (CONTACT)				R7115	1-260-328-11		1K	5%	1/2W
CN7108	↑1_251_182_11	SOCKET, CRT				R7116	1-216-811-11		150	5%	1/16W
CIV/1002	<u> </u>	BOCKET, CKT				10/110	1 210 011 11	KLS CIII	150	370	1/10**
		< DIODE >				R7117	1-260-087-11	CARBON	100	5%	1/2W
		< DIODE >				R7117		METAL CHIP	1.5K		1/2 W
D7103	8-719-921-88	MT7I 12D				R7118 R7119		METAL CHIP	2.4K		1/16W
D7103 D7104	8-719-921-88 8-719-901-83					R7119		METAL OXIDE	100K	5%	3W
D7104 D7105	8-719-901-83					R7120	1-216-864-11		0	370	3 **
D7103 D7106	8-719-901-83					K/121	1-210-804-11	SHORI	U		
						R7122	1-260-093-11	CAPRON	330	5%	1/2W
D7107	8-719-901-83	15585				R7122	1-216-864-11		0	370	1/2 VV
D7100	0.710.021.00	MTZI 12D				K/125	1-210-804-11	SHOKI	U		
D7108	8-719-921-88							CDADI/ CAD			
D7109	8-719-921-88							< SPARK GAP >			
D7110	8-719-991-33	1551551-//				007101	1 510 422 11	CAD CDADIZ			
		· IC·					1-519-422-11				
		< IC >					1-517-729-31	,	olololololololololololololo	inininininininini	alalalalalalalalal
IC7101	8-759-360-83	TDA6111Q/N4					909999999999999999				olo

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REF. NO. PART NO.	DESCRIPTION		REMARK	REF. NO.	PART NO.	DESCRIPTION		Ī	REMARK
* A-1332-15	69-A CG BOARD, COMPLETE					< TRANSISTOR >			
4-382-854	-11 SCREW (M3X10), P, SW (+)		Q7201 Q7202		2SA1037AK-T146- 2SD601A-Q	-R		
	< CAPACITOR >					< RESISTOR >			
	-11 ELECT 22UF -11 CERAMIC 0.001U	20% F 10%		R7202 R7203	1-216-864-11 1-260-132-11		0 560K	5%	1/2W
	-11 ELECT 10UF	20%		R7204	1-216-813-11	RES-CHIP	220	5%	1/16W
C7204 1-161-830	-00 CERAMIC 0.0047	UF 500	V	R7205	1-218-713-11	METAL CHIP	7.5K	0.5%	1/16W
C7205 1-126-768	-11 ELECT 2200U	F 20%	16V	R7206	1-218-716-11	METAL CHIP	10K	0.5%	1/16W
C7206 1-102-050	-00 CERAMIC 0.01UI	99%	500V	R7207	1-219-743-11		100	5%	1/2W
	-11 CERAMIC CHIP 0.1UF	10%		R7208	1-216-823-11		1.5K	5%	1/16W
	-00 CERAMIC 330PF	10%		R7209	1-260-133-11		680K	5%	1/2W
	-11 CERAMIC CHIP 0.1UF	10%		R7210	1-216-813-11		220	5%	1/16W
C7210 1-126-967	-11 ELECT 47UF	20%	50V	R7211	1-218-710-11	METAL CHIP	5.6K	0.5%	1/16W
C7212 1-162-927	-11 CERAMIC CHIP 100PF	5%	50V	R7212		METAL CHIP	12K		1/16W
	-00 CERAMIC 560PF		500V	R7213		METAL CHIP	4.3K		1/16W
	-11 CERAMIC CHIP 8PF		PF50V	R7215	1-249-424-11		3.9K	5%	1/4W
C7215 1-162-908	-11 CERAMIC CHIP 3PF	0.25	PF50V	R7216	1-216-811-11		150	5%	1/16W
	< CONNECTOR >			R7217	1-218-696-11	METAL CHIP	1.5K	0.5%	1/16W
	CONTECTOR			R7218	1-260-328-11	CARBON	1K	5%	1/2W
CN7202* 1-564-509	-11 PLUG, CONNECTOR 6P			R7219	1-218-699-11	METAL CHIP	2K	0.5%	1/16W
	-11 PLUG, CONNECTOR 7P			R7220	1-215-929-11	METAL OXIDE	100K	5%	3W
	-11 PLUG, CONNECTOR 7P			R7221	1-216-864-11	SHORT	0		
	-11 CONNECTOR, ONE TOU	CH		R7222	1-260-087-11	CARBON	100	5%	1/2W
	-11 TAB (CONTACT)								
				R7223	1-260-093-11		330	5%	1/2W
	-11 TAB (CONTACT)			R7224	1-216-864-11	SHORT	0		
CN7209△1-251-18	2-11 SOCKET, CRT					< SPARK GAP >			
	< DIODE >			6.67201	1 510 422 11	CAD CDADY			
D5202 0.510.021	00 1/271 100			SG7201 SG7202	1-519-422-11	GAP, SPARK GAP, SPARK			
	-88 MTZJ-13B								olololololololololok
	-83 1SS83								
	-33 1SS133T-77								
	-83 1SS83 -83 1SS83				* A-1332-160-	CB BOARD, COM	PLETE		
D7207 8-719-901	-03 13303				11 1332 100 1	*********			
	-83 1SS83 -88 MTZJ-13B				4-382-854-11	SCREW (M3X10),	P. SW (+)		
	-88 MTZJ-13B						,		
	< IC >					< CAPACITOR >			
	107			C7301	1-107-662-11	ELECT	22UF	20%	250V
IC7201 8-759-360	-83 TDA6111Q/N4			C7302	1-104-570-11	CERAMIC	0.001UF	10%	2KV
10,201 0,00,000	05 12:101112;11.			C7303	1-126-768-11	ELECT	2200UF	20%	16V
	< JUMPER RESISTOR >			C7304	1-161-830-00	CERAMIC	0.0047UF	500V	
				C7305	1-107-826-11	CERAMIC CHIP	0.1UF	10%	16V
JR7201 1-216-864	-11 SHORT 0			C7306	1-102-050-00	CERAMIC	0.01UF	99%	500V
	< COIL >			C7300 C7307	1-102-030-00		10UF	20%	50V
	< COIL >			C7307		CERAMIC CHIP	0.1UF	10%	16V
L7201 1-414-223	-11 INDUCTOR 470UH	ſ		C7309	1-162-115-00		330PF	10%	2KV
	-11 INDUCTOR 47001			C7310	1-126-967-11		47UF	20%	50V
	-11 INDUCTOR 4.7UH					-			
E/200 1 717-101	1. 1.DOCTOR 4./011			C7312	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
	< NEON LAMP >			C7313	1-102-157-00		560PF		500V
				C7314		CERAMIC CHIP	8PF	0.50P	
NL7201 1-517-778	-21 LAMP, NEON			C7315	1-162-907-11	CERAMIC CHIP	2PF	0.25P	F50V

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REF. NO.	PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTION			REMARK
		< CONNECTOR >				R7324 R7325	1-260-093-11 1-216-864-11		330 0	5%	1/2W
		PLUG, CONNECTO PLUG, CONNECTO				R7327 R7328	1-216-864-11 1-216-823-11		0 1.5K	5%	1/16W
CN7304*	1-564-510-11	PLUG, CONNECT	OR 7P			17520	1 210 023 11		1.510	570	1/10**
		CONNECTOR, ON TAB (CONTACT)	E TOUCH					< SPARK GAP >			
		TAB (CONTACT)					1-519-422-11 1-517-729-31				
		SOCKET, CRT									ololololololololok
		< DIODE >									
D7202	0.710.021.00					*	A-1342-598-A	V BOARD, COMP			
D7303 D7304	8-719-921-88 8-719-901-83										
D7305 D7306	8-719-991-33 8-719-901-83						4-382-854-11	SCREW (M3X10),	P, SW (+)		
D7307	8-719-901-83							< CAPACITOR >			
D7308	8-719-901-83	1SS83				C9002	1-104-999-11	MYLAR	0.1UF	10%	200V
D7309	8-719-991-33	1SS133T-77				C9003	1-125-891-11	CERAMIC CHIP	0.47UF	10%	10V
D7310	8-719-921-88					C9006	1-126-935-11		470UF	20%	6.3V
D7311	8-719-921-88	MTZJ-13B				C9007	1-126-933-11		100UF	20%	16V
		< IC >				C9008	1-126-935-11	ELECT	470UF	20%	6.3V
						C9009	1-126-933-11	ELECT	100UF	20%	16V
IC7301	8-759-360-83	TDA6111Q/N4				C9010	1-107-667-11	ELECT	2.2UF	20%	160V
						C9011	1-107-364-11		0.01UF	10%	200V
		< COIL >				C9012	1-107-364-11		0.01UF	10%	200V
T 7201	1 414 222 11	DIDLICTOR	4501111			C9013	1-162-964-11	CERAMIC CHIP	0.001UF	10%	50V
L7301 L7302	1-414-223-11 1-414-187-11		470UH 47UH			C9014	1 162 064 11	CERAMIC CHIP	0.001UF	10%	50V
L7302 L7303	1-414-181-11		4.7UH			C9014 C9015	1-102-904-11		470UF	20%	16V
L1303	1 414 101 11	INDUCTOR	4.7011			C9017	1-104-999-11		0.1UF	10%	200V
		< NEON LAMP >				C9018	1-107-638-11		33UF	20%	160V
						C9019	1-126-935-11		470UF	20%	16V
NL7301	1-517-778-21	LAMP, NEON						< CONNECTOR >			
		< TRANSISTOR >									
Q7301	8-729-026-49	2SA1037AK-T146-	R					PLUG, CONNECTOR, BO		OARD	8P
Q7302		2SA1037AK-T146-				01.0002	1 //0 /20 11	20111221011,20		0.11	01
		< RESISTOR >						< DIODE >			
		(TEDSISTORY				D9001	8-719-404-50	MA111-TX			
R7301	1-249-393-11	CARBON	10	5%	1/4W	D9002	8-719-404-50	MA111-TX			
R7303	1-260-132-11		560K	5%	1/2W	D9003	8-719-404-50	MA111-TX			
R7304	1-216-864-11		0			D9003		1SS355TE-17			
R7305	1-216-813-11		220	5%	1/16W	D9004	8-719-404-50	MA111-TX			
R7306	1-219-743-11	CARBON	100	5%	1/2W	D9005	8-719-510-02	D1NS4			
R7308	1-218-713-11	METAL CHIP	7.5K	0.5%	1/16W	D9006		MTZJ-T-77-22B			
R7309		METAL CHIP	12K		1/16W	D9007		MTZJ-T-77-22B			
R7310	1-216-813-11		220	5%	1/16W						
R7311	1-218-710-11	METAL CHIP	5.6K	0.5%	1/16W			< COIL >			
R7312	1-218-718-11	METAL CHIP	12K	0.5%	1/16W	T 0001	1 410 505 21	INDLICTOR	101111		
R7313	1-260-133-11	CARBON	680K	5%	1/2W	L9001	1-412-525-31	INDUCTOR	10UH		
R7314		METAL CHIP	2.7K		1/16W			< TRANSISTOR >			
R7316	1-249-424-11		3.9K	5%	1/4W						
R7317	1-216-811-11	RES-CHIP	150	5%	1/16W	Q9002	8-729-422-27				
R7318	1-218-696-11	METAL CHIP	1.5K	0.5%	1/16W	Q9003	8-729-422-27	-			
						Q9004		2SA1037AK-T146-	R		
R7319	1-260-328-11		1K	5%	1/2W	Q9005	8-729-422-27		D		
R7320		METAL CHIP	2.4K		1/16W	Q9006	8-729-026-49	2SA1037AK-T146-	K		
R7321 R7322	1-215-929-11	METAL OXIDE	100K 100	5% 5%	3W 1/2W	Q9007	8-729-422-27	2SD601A O			
R7323		METAL CHIP	4.7K		1/2W 1/16W	Q3007	U-147-442-21	23D001A-Q			
11/343	1 210-700-11	1,112 17 12 CI III	T. / 1%	0.5/0	1/1044						





REF. NO.	PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTION		Ī	REMARK
Q9008	8-729-045-04	2SC5511				C3306	1-126-204-11	ELECT CHIP	47UF	20%	16V
Q9009	8-729-045-05	2SA2005				C3307		CERAMIC CHIP	0.1UF		25V
						C3308		CERAMIC CHIP	0.1UF		25V
		< RESISTOR >				C3309		ELECT CHIP	100UF	20%	6.3V
D0002	1 216 905 11	DEG CHID	47	50/	1/1/337	C3310	1-164-156-11	CERAMIC CHIP	0.1UF		25V
R9002	1-216-805-11		47	5%	1/16W	C2211	1 164 156 11	CED AMIC CHID	0.1115		251/
R9004 R9005	1-216-820-11 1-216-829-11		820 4.7K	5% 5%	1/16W 1/16W	C3311 C3312		CERAMIC CHIP ELECT CHIP	0.1UF 100UF	20%	25V 6.3V
R9005	1-216-829-11		4.7K 4.7K	5%	1/16W 1/16W	C3312		CERAMIC CHIP	0.1UF	2070	25V
R9007	1-216-809-11		100	5%	1/16W	C3314		CERAMIC CHIP	0.1UF		25 V
10007	1 210 000 11	TELS CITI	100	270	1, 10 , ,	C3315		CERAMIC CHIP	0.1UF		25 V
R9008	1-216-803-11	RES-CHIP	33	5%	1/16W						
R9009	1-216-809-11	RES-CHIP	100	5%	1/16W	C3316	1-164-156-11	CERAMIC CHIP	0.1UF		25V
R9010	1-216-813-11		220	5%	1/16W	C3317		CERAMIC CHIP	0.1UF		25V
R9011	1-216-864-11		0			C3318		CERAMIC CHIP	0.1UF		25V
R9012	1-216-823-11	RES-CHIP	1.5K	5%	1/16W	C3319		CERAMIC CHIP	0.1UF		25V
D0012	1 216 905 11	DEC CHID	47	5%	1/16W	C3320	1-164-156-11	CERAMIC CHIP	0.1UF		25V
R9013 R9014	1-216-805-11 1-216-805-11		47	5%	1/16W 1/16W	C3321	1 164 156 11	CERAMIC CHIP	0.1UF		25V
R9014	1-216-833-11		10K	5%	1/16W 1/16W	C3321		ELECT CHIP	47UF	20%	25 V 16V
R9016	1-249-414-11		560	5%	1/4W	C3323		ELECT CHIP	10UF	20%	16V
R9017	1-249-435-11		33K	5%	1/4W	C3324		CERAMIC CHIP	0.1UF	2070	25V
						C3325	1-164-156-11	CERAMIC CHIP	0.1UF		25V
R9018	1-249-435-11	CARBON	33K	5%	1/4W						
R9019	1-249-414-11		560	5%	1/4W	C3326		CERAMIC CHIP	0.1UF		25V
R9020	1-216-799-11		15	5%	1/16W	C3327		CERAMIC CHIP	0.1UF		25V
R9021	1-216-799-11		15	5%	1/16W	C3328		ELECT CHIP	10UF	20%	16V
R9022	1-249-421-11	CARBON	2.2K	5%	1/4W	C3329		CERAMIC CHIP	0.1UF	10%	16V
R9023	1-249-421-11	CARRON	2.2K	5%	1/4W	C3331	1-126-204-11	ELECT CHIP	47UF	20%	16V
R9023	1-249-421-11		2.2 K 100	5%	1/4W 1/4W	C3332	1_124_779_00	ELECT CHIP	10UF	20%	16V
R9024 R9025	1-249-385-11		2.2	5%	1/4W	C3333		CERAMIC CHIP	0.1UF	2070	25V
R9027	1-249-385-11		2.2	5%	1/4W	C3334		CERAMIC CHIP	0.1UF	10%	16V
R9028	1-249-405-11		100	5%	1/4W	C3335		CERAMIC CHIP	0.1UF		25V
						C3336	1-124-779-00	ELECT CHIP	10UF	20%	16V
R9029		METAL OXIDE	220	5%	3W						
R9030	1-249-377-11		0.47	5%	1/4W	C3337		CERAMIC CHIP	0.1UF	10%	16V
R9031	1-249-385-11		2.2	5%	1/4W	C3338		CERAMIC CHIP	0.1UF		25V
R9032	1-249-385-11		2.2	5%	1/4W	C3339		CERAMIC CHIP	0.1UF		25V
R9033	1-249-436-11	CARBON	39K	5%	1/4W	C3340 C3341		CERAMIC CHIP CERAMIC CHIP	0.1UF 0.1UF		25V 25V
R9034	1-249-436-11	CARBON	39K	5%	1/4W	C3341	1-104-150-11	CERAINIC CIII	0.101		23 v
						C3343	1-164-156-11	CERAMIC CHIP	0.1UF		25V
						C3344	1-164-156-11	CERAMIC CHIP	0.1UF		25V
						C3345	1-126-204-11	ELECT CHIP	47UF	20%	16V
:	* A-1136-218-A	B BOARD, COMP				C3346	1-164-156-11	CERAMIC CHIP	0.1UF		25V
		******	*****			C3347	1-164-156-11	CERAMIC CHIP	0.1UF		25V
		CADACITOD :				C2240	1 164 156 11	CED AMIC CUIP	0.1177		251/
		< CAPACITOR >				C3348 C3349		CERAMIC CHIP CERAMIC CHIP	0.1UF 0.1UF		25V 25V
C3001	1-128-453-21	ELECT CHIP	47UF	20%	6.3V	C3350		CERAMIC CHIP	0.1UF		25 V 25 V
C3002		ELECT CHIP	47UF	20%		C3351		CERAMIC CHIP	0.1UF		25 V
C3003		ELECT CHIP	47UF	20%		C3352		ELECT CHIP	10UF	20%	16V
C3035	1-162-970-11	CERAMIC CHIP	0.01UF	10%	25V						
C3044	1-164-156-11	CERAMIC CHIP	0.1UF		25V	C3353	1-126-204-11	ELECT CHIP	47UF	20%	16V
						C3354		CERAMIC CHIP	0.1UF		25V
C3089		CERAMIC CHIP	0.01UF	10%		C3355		CERAMIC CHIP	0.1UF	•	25V
C3090		ELECT CHIP	47UF	20%		C3356		ELECT CHIP	47UF	20%	16V
C3096 C3101		CERAMIC CHIP CERAMIC CHIP	0.01UF 68PF	10% 5%	25V 50V	C3357	1-104-156-11	CERAMIC CHIP	0.1UF		25V
C3101 C3102		CERAMIC CHIP	68PF	5%	50V	C3358	1-164-156-11	CERAMIC CHIP	0.1UF		25V
CJ102	1 102-723-11	CLIVINIC CHIE	0011	J /0	50 ¥	C3359		ELECT CHIP	47UF	20%	25 V 16V
C3301	1-164-156-11	CERAMIC CHIP	0.1UF		25V	C3360		CERAMIC CHIP	0.1UF	_0/0	25V
C3302		CERAMIC CHIP	0.1UF		25V	C3361		CERAMIC CHIP	0.01UF	10%	25V
C3303		ELECT CHIP	100UF	20%		C3362		CERAMIC CHIP	4.7UF	10%	6.3V
C3304		CERAMIC CHIP	0.1UF		25V						
C3305	1-164-156-11	CERAMIC CHIP	0.1UF		25V	C3363		ELECT CHIP	47UF	20%	16V
						C3364	1-164-156-11	CERAMIC CHIP	0.1UF		25V



REF. NO.	PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTION			REMARK
C3365	1 164 156 11	CERAMIC CHIP	0.1UF		25V	C3445	1 126 204 11	ELECT CHIP	47UF	20%	16V
C3366		CERAMIC CHIP	0.1UF		25 V 25 V	C3446		CERAMIC CHIP	0.1UF	10%	16V 16V
					25 V 25 V			CERAMIC CHIP	0.1UF	1070	25V
C3367	1-104-130-11	CERAMIC CHIP	0.1UF		23 V	C3447				1.00/	
G22.60	1 164 156 11	CED A MIC CHID	0.1115		2517	C3448		CERAMIC CHIP	0.01UF	10%	25V
C3368		CERAMIC CHIP	0.1UF		25V	C3449	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C3369		CERAMIC CHIP	0.1UF		25V						
C3370		CERAMIC CHIP	0.1UF		25V	C3450		CERAMIC CHIP	0.1UF		25V
C3371		CERAMIC CHIP	0.1UF		25V	C3451		CERAMIC CHIP	0.1UF		25V
C3372	1-164-156-11	CERAMIC CHIP	0.1UF		25V	C3452	1-164-156-11	CERAMIC CHIP	0.1UF		25V
						C3453	1-124-779-00	ELECT CHIP	10UF	20%	16V
C3373	1-162-915-11	CERAMIC CHIP	10PF	0.50P	F50V	C3454	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C3374	1-164-156-11	CERAMIC CHIP	0.1UF		25V						
C3375	1-127-760-11	CERAMIC CHIP	4.7UF	10%	6.3V	C3455	1-124-779-00	ELECT CHIP	10UF	20%	16V
C3376	1-164-156-11	CERAMIC CHIP	0.1UF		25V	C3456	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C3377		CERAMIC CHIP	0.01UF	10%	25V	C3457		ELECT CHIP	10UF	20%	16V
						C3458		CERAMIC CHIP	0.1UF		25V
C3378	1-126-204-11	ELECT CHIP	47UF	20%	16V	C3460		CERAMIC CHIP	47PF	5%	50V
C3379		CERAMIC CHIP	0.1UF	2070	25V	C3400	1-102-725-11	CLICAIVIIC CIIII	4/11	370	30 V
C3401		CERAMIC CHIP	0.1UF		25 V 25 V	C3462	1 164 156 11	CERAMIC CHIP	0.1UF		25V
				200/					0.1UF		
C3402		ELECT CHIP	10UF	20%	16V	C3463		CERAMIC CHIP			25V
C3403	1-104-130-11	CERAMIC CHIP	0.1UF		25V	C3464		CERAMIC CHIP	0.1UF		25V
						C3465		CERAMIC CHIP	0.1UF		25V
C3404		ELECT CHIP	100UF	20%	6.3V	C3466	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C3405	1-126-206-11	ELECT CHIP	100UF	20%	6.3V						
C3406	1-107-826-11	CERAMIC CHIP	0.1UF	10%	16V	C3467	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C3407	1-107-826-11	CERAMIC CHIP	0.1UF	10%	16V	C3468	1-126-206-11	ELECT CHIP	100UF	20%	6.3V
C3408	1-126-206-11	ELECT CHIP	100UF	20%	6.3V	C3469	1-164-156-11	CERAMIC CHIP	0.1UF		25V
						C3470	1-126-206-11	ELECT CHIP	100UF	20%	6.3V
C3409	1-164-156-11	CERAMIC CHIP	0.1UF		25V	C3473	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C3410		CERAMIC CHIP	0.1UF		25V						
C3411		CERAMIC CHIP	0.1UF		25V	C3474	1-124-779-00	ELECT CHIP	10UF	20%	16V
C3412		CERAMIC CHIP	0.1UF		25V	C3475		CERAMIC CHIP	0.1UF	2070	25V
C3413		CERAMIC CHIP	0.1UF		25 V	C3476		ELECT CHIP	10UF	20%	16V
C3413	1-104-130-11	CERAINIC CIII	0.101		23 v					2070	25V
C2414	1 164 156 11	CED A MIC CHID	0.1115		2537	C3477		CERAMIC CHIP	0.1UF	200/	
C3414		CERAMIC CHIP	0.1UF	200/	25V	C3478	1-120-204-11	ELECT CHIP	47UF	20%	16V
C3415		ELECT CHIP	10UF	20%	16V	G2.450	4 424 550 00	Er Eam arre	40775	2001	4 - 7 7
C3416		CERAMIC CHIP	0.1UF		25V	C3479		ELECT CHIP	10UF	20%	16V
C3417		CERAMIC CHIP	0.1UF		25V	C3480		CERAMIC CHIP	0.1UF		25V
C3418	1-107-826-11	CERAMIC CHIP	0.1UF	10%	16V	C3481		ELECT CHIP	100UF	20%	16V
						C3482	1-117-681-11	ELECT CHIP	100UF	20%	16V
C3419	1-164-156-11	CERAMIC CHIP	0.1UF		25V	C3483	1-117-681-11	ELECT CHIP	100UF	20%	16V
C3420	1-124-779-00	ELECT CHIP	10UF	20%	16V	C3484	1-125-837-91	CERAMIC CHIP	1UF	10%	6.3V
C3421	1-164-156-11	CERAMIC CHIP	0.1UF		25V						
C3422	1-164-156-11	CERAMIC CHIP	0.1UF		25V	C3485	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C3423	1-162-970-11	CERAMIC CHIP	0.01UF	10%	25V	C3486	1-164-156-11	CERAMIC CHIP	0.1UF		25V
						C3487	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C3424	1-164-156-11	CERAMIC CHIP	0.1UF		25V	C3488		ELECT CHIP	10UF	20%	16V
C3425		CERAMIC CHIP	0.47UF	10%	10V	C3489		CERAMIC CHIP	0.1UF		25V
C3426		CERAMIC CHIP	0.1UF	- / -	25V	- **			-		
C3428		CERAMIC CHIP	0.1UF	10%	16V	C3490	1-124-779-00	ELECT CHIP	10UF	20%	16V
C3429		ELECT CHIP	10UF	20%	16V	C3491		ELECT CHIP	47UF	20%	16V
0012)	1 121 /// 00		1001	2070	'	C3492		CERAMIC CHIP	0.1UF	2070	25V
C3430	1-164-156 11	CERAMIC CHIP	0.1UF		25V	C3492 C3493		ELECT CHIP	47UF	20%	25 V 16V
C3430 C3431		ELECT CHIP	47UF	20%	16V	C3493 C3494		CERAMIC CHIP	0.1UF	2070	25V
				2070	I	C3474	1-104-130-11	CENTAIVIIC CHIP	0.101		4J V
C3432		CERAMIC CHIP	0.1UF	100/	25V	C2405	1 104 770 00	ELECT CLUP	10115	200/	16V
C3433		CERAMIC CHIP	0.01UF	10%	25V	C3495		ELECT CHIP	10UF	20%	16V
C3434	1-126-204-11	ELECT CHIP	47UF	20%	16V	C3496		CERAMIC CHIP	0.1UF	100/	25V
		ann 1	0.4		25	C3499	1-162-970-11	CERAMIC CHIP	0.01UF	10%	25V
C3435		CERAMIC CHIP	0.1UF		25V						
C3436		CERAMIC CHIP	0.1UF	10%	16V			< CONNECTOR >			
C3437		ELECT CHIP	47UF	20%	16V						
C3438	1-164-156-11	CERAMIC CHIP	0.1UF		25V	CN3203*	1-793-923-11	CONNECTOR, DI	N (PLUG)	54P	
C3439	1-164-156-11	CERAMIC CHIP	0.1UF		25V						
								< DIODE >			
C3440	1-162-916-11	CERAMIC CHIP	12PF	5%	50V						
C3441		CERAMIC CHIP	12PF	5%	50V	D3089	8-719-800-76	1SS226			
C3442		ELECT CHIP	10UF	20%	16V	D3090	8-719-800-76				
C3443		CERAMIC CHIP	0.01UF	10%	25V	D3301		UDZSTE-173.9B			
C3444		CERAMIC CHIP	0.1UF	- 370	25V						
			-								



REF. NO.	PART NO.	DESCRIPTION		REMARK	REF. NO.	PART NO.	DESCRIPTION		<u>.</u>	REMARK
D3302 D3401	8-719-069-60 8-719-914-43	UDZSTE-179.1B DAN202K			L3311 L3312	1-469-561-21 1-469-555-21	INDUCTOR INDUCTOR	100UH 10UH		
D3402	8-719-914-45	DAP202K			L3401	1-412-058-11	INDUCTOR	10UH		
D3403	8-719-069-33	DTZ-TT11-6.8B			L3402	1-412-052-21	INDUCTOR	1UH		
		< FERRITE BEAD	_		L3403 L3404	1-469-561-21	INDUCTOR INDUCTOR	100UH 100UH		
					L3405	1-469-555-21		10UH		
	1-500-451-11 1-414-235-22		0UH 0UH		L3406	1 460 555 21	INDUCTOR	10UH		
	1-414-235-22		0UH		L3407	1-469-555-21		10UH		
		· EH TED ·			L3408	1-469-555-21		10UH		
		< FILTER >			L3409 L3410	1-469-555-21 1-412-058-11	INDUCTOR	10UH 10UH		
FL3003	1-781-924-11	FILTER, LOW PAS	S (SMD)		L3411	1-412-058-11	INDUCTOR	10UH		
		FILTER, LOW PAS FILTER, LOW PAS			L3412 L3413	1-469-555-21		10UH 10UH		
		FILTER, LOW PAS			L3413 L3414	1-469-555-21 1-469-555-21	INDUCTOR	10UH		
		FILTER, LOW PAS			L3416	1-469-555-21		10UH		
		< IC >					< TRANSISTOR >			
IC3089	6-700-149-01	IC M24C04-MN6T	(A)		Q3005	8-729-422-27				
IC3090		IC MB94918RPF-C	3-134-BND		Q3006	8-729-422-27				
IC3091 IC3301	8-759-349-11 8-759-832-53	W981616AH-7-EL	1		Q3007 Q3089	8-729-422-27 8-729-026-49	2SD601A-Q 2SA1037AK-T146	-R		
IC3302		IC BA18BC0FP-E2			Q3090		2SA1037AK-T146			
IC3303	8-752-409-78	IC CXD2095AQ			Q3091	1-801-806-11	TR DTC144EKA			
IC3304		TLC5733AIPM			Q3401	8-729-422-27				
IC3305 IC3306		TLC2932IPWR TLC2933IPWR-12			Q3301 Q3302	8-729-422-27 8-729-422-27				
IC3401		IC BA25BC0FP-E2			Q3303	8-729-422-27				
IC3402	8-759-677-39	MB81F643242B-D			Q3304	8-729-422-27	2SD601A-Q			
IC3403	8-759-460-29				Q3305		2SA1037AK-T146-			
IC3404 IC3405		TLC2932IPWR TC7SET08FU(TE8	5L.		Q3306 Q3307	8-729-026-49 8-729-422-27	2SA1037AK-T146- 2SD601A-O	-K		
IC3406		TC7SET08FU(TE8			Q3308		2SA1037AK-T146	-R		
IC3407		TC7SET08FU(TE8	5L		Q3309	8-729-422-27				
IC3408 IC3409		CXD9509AQ	70		Q3310		2SA1037AK-T146-	-R		
IC3409 IC3410	8-752-367-59	IC NJM2870F25-TI CXD2309O	32		Q3311 Q3402	8-729-422-27 8-729-028-28	2SK2036(TE85L)			
IC3411	8-759-082-57	-			Q3403		2SD601A-Q			
IC3412	8-759-082-58	TC7W08FU			Q3404	8-729-028-28	2SK2036(TE85L)			
IC3413		SN74LV4053ANSR	1		Q3405		2SA1037AK-T146-			
IC3414	8-759-548-56	M52055FP			Q3406 Q3407	8-729-026-49 8-729-422-27	2SA1037AK-T146-	-R		
		<coil></coil>			Q3407 Q3408		2SA1037AK-T146	-R		
1 2001	1 21 6 20 5 01		0		Q3409	8-729-422-27				
L3001 L3089	1-216-295-91 1-414-233-22		0 0UH		Q3410	8-729-026-49	2SA1037AK-T146	-R		
L3102	1-412-946-11		3.9UH		Q3410 Q3411		2SA1037AK-T146-			
L3301	1-412-058-11		10UH		Q3412		2SA1037AK-T146			
L3302	1-469-555-21	INDUCTOR	10UH		Q3413 Q3414		2SA1037AK-T146- 2SA1037AK-T146-			
L3303	1-412-052-21	INDUCTOR	1UH		Q3+1+	0-127-020-47	20A100/AK-1140	11		
L3304	1-469-555-21	INDUCTOR	10UH		Q3415	8-729-026-49	2SA1037AK-T146	-R		
L3305	1-469-555-21		10UH				DEGIGEOR			
L3306 L3307	1-469-561-21 1-469-555-21		100UH 10UH				< RESISTOR >			
LJJ07	1-70/-333-21	I IDOCTOR	10011		R3001	1-216-833-11	RES-CHIP	10K	5%	1/16W
L3308	1-469-561-21		100UH		R3002	1-216-864-11		0		
L3309	1-469-561-21		100UH		R3021	1-216-809-11		100	5%	1/16W
L3310	1-469-561-21	INDUCTOR	100UH		R3022	1-216-809-11	RES-CHIP	100	5%	1/16W



REF. NO.	PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTION			REMARK
R3023	1-216-833-11	RES-CHIP	10K	5%	1/16W	R3329	1-216-815-11	RES-CHIP	330	5%	1/16W
						R3330	1-216-815-11	RES-CHIP	330	5%	1/16W
R3035	1-216-809-11	RES-CHIP	100	5%	1/16W	R3331	1-216-841-11	RES-CHIP	47K	5%	1/16W
R3036	1-216-809-11	RES-CHIP	100	5%	1/16W						
R3037	1-216-809-11	RES-CHIP	100	5%	1/16W	R3332	1-218-709-11	METAL CHIP	5.1K	0.5%	1/16W
R3038	1-218-686-11	METAL CHIP	560	0.5%	1/16W	R3333	1-216-864-11	SHORT	0		
R3039	1-218-686-11	METAL CHIP	560	0.5%	1/16W	R3334	1-216-809-11	RES-CHIP	100	5%	1/16W
R3040	1-218-686-11	METAL CHIP	560	0.5%	1/16W	R3335	1-216-833-11	RES-CHIP	10K	5%	1/16W
R3050	1-216-809-11	RES-CHIP	100	5%	1/16W	R3337	1-216-820-11	RES-CHIP	820	5%	1/16W
R3079	1-216-821-11	RES-CHIP	1K	5%	1/16W						
R3089	1-216-864-11	SHORT	0			R3338	1-216-821-11	RES-CHIP	1K	5%	1/16W
						R3339	1-216-855-11	RES-CHIP	680K	5%	1/16W
R3091	1-216-825-11	RES-CHIP	2.2K	5%	1/16W	R3340	1-216-855-11	RES-CHIP	680K	5%	1/16W
R3092	1-216-825-11	RES-CHIP	2.2K	5%	1/16W	R3341	1-216-813-11	RES-CHIP	220	5%	1/16W
R3095	1-216-845-11	RES-CHIP	100K	5%	1/16W	R3342	1-218-705-11	METAL CHIP	3.6K	0.5%	1/16W
R3096	1-216-817-11	RES-CHIP	470	5%	1/16W						
R3097	1-216-845-11	RES-CHIP	100K	5%	1/16W	R3343	1-216-809-11		100	5%	1/16W
						R3344	1-216-853-11	RES-CHIP	470K	5%	1/16W
R3098	1-216-805-11	RES-CHIP	47	5%	1/16W	R3345	1-218-704-11	METAL CHIP	3.3K	0.5%	1/16W
R3099	1-216-805-11	RES-CHIP	47	5%	1/16W	R3346	1-216-809-11	RES-CHIP	100	5%	1/16W
R3100	1-216-809-11	RES-CHIP	100	5%	1/16W	R3347	1-216-815-11	RES-CHIP	330	5%	1/16W
R3101	1-216-809-11	RES-CHIP	100	5%	1/16W						
R3102	1-216-809-11	RES-CHIP	100	5%	1/16W	R3348	1-216-864-11	SHORT	0		
						R3349	1-218-687-11	METAL CHIP	620	0.5%	1/16W
R3103	1-216-822-11	RES-CHIP	1.2K	5%	1/16W	R3350	1-216-814-11	RES-CHIP	270	5%	1/16W
R3104	1-216-809-11	RES-CHIP	100	5%	1/16W	R3351	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R3105	1-216-809-11	RES-CHIP	100	5%	1/16W	R3352	1-216-853-11	RES-CHIP	470K	5%	1/16W
R3106	1-216-818-11	RES-CHIP	560	5%	1/16W						
R3107	1-216-864-11	SHORT	0			R3353	1-216-837-11	RES-CHIP	22K	5%	1/16W
						R3354	1-216-813-11	RES-CHIP	220	5%	1/16W
R3108	1-216-817-11	RES-CHIP	470	5%	1/16W	R3355	1-216-821-11	RES-CHIP	1K	5%	1/16W
R3109	1-216-823-11	RES-CHIP	1.5K	5%	1/16W	R3356	1-216-819-11	RES-CHIP	680	5%	1/16W
R3110	1-216-809-11	RES-CHIP	100	5%	1/16W	R3357	1-218-676-11	METAL CHIP	220	0.5%	1/16W
R3111	1-216-809-11	RES-CHIP	100	5%	1/16W						
R3301	1-216-809-11	RES-CHIP	100	5%	1/16W	R3358	1-218-676-11	METAL CHIP	220	0.5%	1/16W
						R3359	1-218-676-11	METAL CHIP	220	0.5%	1/16W
R3302	1-216-817-11	RES-CHIP	470	5%	1/16W	R3360	1-216-827-11	RES-CHIP	3.3K	5%	1/16W
R3303	1-218-710-11	METAL CHIP	5.6K	0.5%	1/16W	R3361	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R3304	1-216-809-11	RES-CHIP	100	5%	1/16W	R3364	1-216-864-11	SHORT	0		
R3305	1-216-809-11	RES-CHIP	100	5%	1/16W						
R3306	1-216-809-11	RES-CHIP	100	5%	1/16W	R3365	1-216-827-11	RES-CHIP	3.3K	5%	1/16W
						R3366	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R3307	1-216-864-11	SHORT	0			R3367	1-216-803-11	RES-CHIP	33	5%	1/16W
R3308	1-216-864-11	SHORT	0			R3369	1-216-864-11	SHORT	0		
R3309	1-218-662-11	METAL CHIP	56	0.5%	1/16W	R3371	1-218-686-11	METAL CHIP	560	0.5%	1/16W
R3310	1-218-662-11	METAL CHIP	56	0.5%	1/16W						
R3311	1-218-662-11	METAL CHIP	56	0.5%	1/16W	R3372	1-216-817-11	RES-CHIP	470	5%	1/16W
						R3373	1-216-817-11	RES-CHIP	470	5%	1/16W
R3312	1-218-662-11	METAL CHIP	56	0.5%	1/16W	R3374	1-216-809-11	RES-CHIP	100	5%	1/16W
R3313	1-216-835-11	RES-CHIP	15K	5%	1/16W	R3375	1-218-686-11	METAL CHIP	560	0.5%	1/16W
R3314	1-218-665-11	METAL CHIP	75	0.5%	1/16W	R3376	1-218-710-11	METAL CHIP	5.6K	0.5%	1/16W
R3315	1-216-835-11	RES-CHIP	15K	5%	1/16W						
R3316	1-218-664-11	METAL CHIP	68	0.5%	1/16W	R3377	1-216-817-11	RES-CHIP	470	5%	1/16W
						R3378	1-216-817-11	RES-CHIP	470	5%	1/16W
R3317	1-218-664-11	METAL CHIP	68	0.5%	1/16W	R3379	1-216-809-11	RES-CHIP	100	5%	1/16W
R3318	1-218-665-11	METAL CHIP	75	0.5%	1/16W	R3380	1-218-686-11	METAL CHIP	560	0.5%	1/16W
R3319	1-218-662-11	METAL CHIP	56	0.5%	1/16W	R3381	1-218-710-11	METAL CHIP	5.6K	0.5%	1/16W
R3320	1-218-662-11	METAL CHIP	56	0.5%	1/16W						
R3321	1-218-662-11	METAL CHIP	56	0.5%	1/16W	R3382	1-216-864-11	SHORT	0		
						R3383	1-216-817-11	RES-CHIP	470	5%	1/16W
R3322	1-218-662-11	METAL CHIP	56	0.5%	1/16W	R3410	1-216-833-11	RES-CHIP	10K	5%	1/16W
R3323	1-216-825-11	RES-CHIP	2.2K	5%	1/16W	R3421	1-216-864-11	SHORT	0		
R3324	1-216-827-11	RES-CHIP	3.3K	5%	1/16W	R3422	1-216-864-11	SHORT	0		
R3325	1-216-827-11	RES-CHIP	3.3K	5%	1/16W						
R3326	1-216-825-11		2.2K	5%	1/16W	R3423	1-216-813-11	RES-CHIP	220	5%	1/16W
						R3428	1-216-803-11	RES-CHIP	33	5%	1/16W
R3327	1-216-835-11	RES-CHIP	15K	5%	1/16W	R3429	1-216-823-11	RES-CHIP	1.5K	5%	1/16W
R3328	1-216-864-11	SHORT	0			R3432	1-216-815-11	RES-CHIP	330	5%	1/16W



REF. NO.	PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTION		I	REMARK
			100	50/					100	-	
R3434	1-216-809-11	RES-CHIP	100	5%	1/16W	R3812	1-216-809-11		100 100	5% 5%	1/16W 1/16W
R3445	1-216-864-11	SHOPT	0			R3813 R3814	1-216-809-11	METAL CHIP	100	0.5%	1/16W
R3446	1-216-821-11		1K	5%	1/16W	R3815		METAL CHIP	15	0.5%	1/16W
R3447	1-216-819-11		680	5%	1/16W	R3816		METAL CHIP	22	0.5%	1/16W
R3448	1-216-855-11		680K	5%	1/16W	113010	1 210 032 11	WEITE CITE	22	0.570	1/10 11
R3452	1-216-864-11		0	- / -	-,	R3817	1-218-652-11	METAL CHIP	22	0.5%	1/16W
						R3820		METAL CHIP	470	0.5%	1/16W
R3454	1-216-825-11	RES-CHIP	2.2K	5%	1/16W	R3821	1-218-684-11	METAL CHIP	470	0.5%	1/16W
R3460	1-216-833-11	RES-CHIP	10K	5%	1/16W	R3822	1-218-684-11	METAL CHIP	470	0.5%	1/16W
R3461	1-216-833-11	RES-CHIP	10K	5%	1/16W	R3823	1-216-826-11	RES-CHIP	2.7K	5%	1/16W
R3464	1-216-821-11	RES-CHIP	1K	5%	1/16W						
R3465	1-216-821-11	RES-CHIP	1K	5%	1/16W	R3824	1-216-826-11	RES-CHIP	2.7K	5%	1/16W
						R3825	1-216-826-11		2.7K	5%	1/16W
R3467	1-216-821-11		1K	5%	1/16W	R3826	1-216-809-11		100	5%	1/16W
R3470	1-216-809-11		100	5%	1/16W	R3828		METAL CHIP	470	0.5%	1/16W
R3471	1-216-821-11		1K	5%	1/16W	R3829	1-218-684-11	METAL CHIP	470	0.5%	1/16W
R3472	1-216-801-11		22	5%	1/16W	D2020	1 210 604 11	METAL CIUD	470	0.50/	1 /1 (1)
R3475	1-216-809-11	RES-CHIP	100	5%	1/16W	R3830		METAL CHIP	470	0.5%	1/16W
D2476	1 216 921 11	DEC CHID	1K	5%	1/16W	R3831 R3832	1-216-864-11 1-216-864-11		0		
R3476 R3477	1-216-821-11	METAL CHIP	2.4K	0.5%	I	R3833	1-216-864-11		0		
R3477	1-216-701-11		2.4K 1K	5%	1/16W 1/16W	R3834		METAL CHIP	270	0.5%	1/16W
R3483		METAL CHIP	2.4K	0.5%	I	K3034	1-210-070-11	METAL CITI	270	0.570	1/10 W
R3484	1-216-821-11		1K	5%	1/16W	R3835	1-218-678-11	METAL CHIP	270	0.5%	1/16W
13404	1 210 021 11	KLS CIIII	111	570	1/10**	R3836		METAL CHIP	270	0.5%	1/16W
R3485	1-216-821-11	RES-CHIP	1K	5%	1/16W	R3837		METAL CHIP	270	0.5%	1/16W
R3486	1-216-801-11		22	5%	1/16W	R3838		METAL CHIP	270	0.5%	1/16W
R3489	1-216-864-11		0	570	1/1011	R3839		METAL CHIP	120	0.5%	1/16W
R3490	1-216-864-11		0								-,
R3491	1-216-821-11		1K	5%	1/16W	R3840	1-216-803-11	RES-CHIP	33	5%	1/16W
						R3841	1-218-670-11	METAL CHIP	120	0.5%	1/16W
R3492	1-216-821-11	RES-CHIP	1K	5%	1/16W	R3842	1-218-689-11	METAL CHIP	750	0.5%	1/16W
R3493	1-218-701-11	METAL CHIP	2.4K	0.5%	1/16W	R3846	1-216-801-11	RES-CHIP	22	5%	1/16W
R3495	1-216-821-11	RES-CHIP	1K	5%	1/16W	R3847	1-216-801-11	RES-CHIP	22	5%	1/16W
R3496	1-216-801-11	RES-CHIP	22	5%	1/16W						
R3497	1-216-829-11	RES-CHIP	4.7K	5%	1/16W	R3848	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
						R3849		METAL CHIP	200	0.5%	1/16W
R3498	1-216-818-11		560	5%	1/16W	R3850		METAL CHIP	200	0.5%	1/16W
R3499	1-216-821-11		1K	5%	1/16W	R3851	1-216-809-11		100	5%	1/16W
R3501	1-216-821-11		1K	5%	1/16W	R3852	1-218-675-11	METAL CHIP	200	0.5%	1/16W
R3502	1-216-821-11		1K	5%	1/16W	D2054	1 216 925 11	DEC CHID	2.217	50/	1/1/337
R3503	1-216-821-11	RES-CHIP	1K	5%	1/16W	R3854	1-216-825-11		2.2K	5%	1/16W
R3504	1-216-821-11	DEC CHID	1K	5%	1/16W	R3857 R3858	1-216-809-11	METAL CHIP	100 3.3K	5%	1/16W 1/16W
R3505	1-216-821-11		1K	5%	1/16W 1/16W	R3862	1-216-704-11		2.2K	5%	1/16W
R3506	1-216-821-11		1K 1K	5%	1/16W 1/16W	R3863		METAL CHIP	2.2K 2.2K	0.5%	1/16W
R3507	1-216-821-11		1K	5%	1/16W	13003	1-210-700-11	WILIAL CITI	2.2IX	0.570	1/10 W
R3508	1-216-821-11		1K	5%	1/16W	R3864	1-216-827-11	RES-CHIP	3.3K	5%	1/16W
				- / 0		R3865	1-216-809-11		100	5%	1/16W
R3509	1-216-821-11	RES-CHIP	1K	5%	1/16W	R3866	1-414-234-22		0UH		
R3510	1-216-821-11		1K	5%	1/16W	R3867	1-414-234-22		0UH		
R3511	1-216-821-11		1K	5%	1/16W	R3868	1-414-234-22	FERRITE	0UH		
R3512	1-216-821-11		1K	5%	1/16W						
R3800	1-216-864-11	SHORT	0			R3869	1-218-719-11	METAL CHIP	13K	0.5%	1/16W
						R3870	1-218-719-11	METAL CHIP	13K	0.5%	1/16W
R3802		METAL CHIP	270	0.5%	1/16W	R3871	1-218-719-11	METAL CHIP	13K	0.5%	1/16W
R3803	1-218-678-11	METAL CHIP	270	0.5%	1/16W	R3881	1-216-807-11	RES-CHIP	68	5%	1/16W
R3804		METAL CHIP	270		1/16W	R3882	1-216-807-11	RES-CHIP	68	5%	1/16W
R3805	1-218-678-11	METAL CHIP	270	0.5%	1/16W						
R3806	1-218-662-11	METAL CHIP	56	0.5%	1/16W	R3883	1-216-807-11		68	5%	1/16W
						R3915		METAL CHIP	10		1/16W
R3807		METAL CHIP	120	0.5%		R3916		METAL CHIP	10		1/16W
R3808		METAL CHIP	120		1/16W	R3917		METAL CHIP	10	0.5%	1/16W
R3809		METAL CHIP	120		1/16W	R3923	1-412-363-21	FERRITE	0UH		
R3810		METAL CHIP	120	0.5%	I	P.20	1.01.5.0.5.1.1	GHOD	0		
R3811	1-216-809-11	KES-CHIP	100	5%	1/16W	R3933	1-216-864-11		0	50/	1/1/17
						R3937	1-216-809-11	KES-CHIP	100	5%	1/16W





REF. NO.	PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTION			REMARK
R3953	1-216-821-11	RES-CHIP	1K	5%	1/16W	C2019	1-126-964-11	ELECT	10UF	20%	50V
R3954	1-216-821-11		1K	5%	1/16W	C2020	1-126-964-11		10UF	20%	50V
R3955	1-216-821-11		1K	5%	1/16W	C2021	1-126-960-11		1UF	20%	50V
						C2022	1-126-960-11		1UF	20%	50V
R3956	1-216-825-11	RES-CHIP	2.2K	5%	1/16W	C2023	1-126-964-11		10UF	20%	50V
R3957	1-216-825-11	RES-CHIP	2.2K	5%	1/16W						
R3958	1-216-825-11	RES-CHIP	2.2K	5%	1/16W	C2024	1-126-964-11	ELECT	10UF	20%	50V
						C2025	1-126-960-11	ELECT	1UF	20%	50V
		< NETWORK RES	ISTOR >			C2026	1-126-960-11		1UF	20%	50V
						C2027	1-128-551-11		22UF	20%	25V
		RES, CHIP NETW				C2028	1-126-933-11	ELECT	100UF	20%	16V
		RES, CHIP NETW				G2020	1 126 064 11	EL ECE	1017	200/	5011
		RES, CHIP NETW				C2029	1-126-964-11		10UF	20%	50V 50V
RB3307 RB3401		RES, CHIP NETW				C2030 C2031	1-126-964-11 1-126-964-11		10UF 10UF	20% 20%	50 V 50 V
KD3401	1-234-324-21	KES, CHIF NET W	OKK 33			C2031	1-126-964-11		10UF	20%	50V
RB3402	1-234-524-21	RES, CHIP NETW	ORK 33			C2032	1-126-960-11		1UF	20%	50V
		RES, CHIP NETW				C2033	1-120-700-11	LLLCI	101	2070	30 v
		RES, CHIP NETW				C2036	1-162-970-11	CERAMIC CHIP	0.01UF	10%	25V
		RES. CHIP NETW				C2037		CERAMIC CHIP	0.047UF	10%	16V
RB3406		RES, CHIP NETW				C2038		CERAMIC CHIP	220PF	2%	50V
		,				C2040	1-126-933-11		100UF	20%	16V
RB3407	1-239-409-11	RES, CHIP NETW	ORK 47 (32	216)		C2043		CERAMIC CHIP	0.01UF	10%	25V
RB3408	1-239-409-11	RES, CHIP NETW	ORK 47 (3:	216)							
RB3409	1-239-409-11	RES, CHIP NETW	ORK 47 (32	216)		C2044	1-126-933-11	ELECT	100UF	20%	16
RB3410	1-239-409-11	RES, CHIP NETW	ORK 47 (32	216)		C2045	1-162-970-11	CERAMIC CHIP	0.01UF	10%	25V
RB3411	1-239-409-11	RES, CHIP NETW	ORK 47 (3)	216)		C2046	1-125-891-11	CERAMIC CHIP	0.47UF	10%	10V
						C2048		CERAMIC CHIP	0.47UF	10%	10V
		RES, CHIP NETW				C2050	1-125-891-11	CERAMIC CHIP	0.47UF	10%	10V
		RES, CHIP NETW									
		RES, CHIP NETW	,	,		C2052		CERAMIC CHIP	0.01UF	10%	25V
RB3423		RES, CHIP NETW				C2055	1-126-964-11		10UF	20%	50V
RB3424	1-239-409-11	RES, CHIP NETW	ORK 47 (3)	216)		C2056		CERAMIC CHIP	0.47UF	10%	10V
DD2425	1 220 400 11	DEC CHIDNETS	ODIZ 47 (2)	216		C2060	1-126-933-11		100UF	20%	16V
		RES, CHIP NETW	,	,		C2061	1-126-964-11	ELECI	10UF	20%	50V
RB3427		RES, CHIP NETW				C2062	1 107 826 11	CERAMIC CHIP	0.1UF	10%	16V
		RES, CHIP NETW				C2062		CERAMIC CHIP	0.101 0.01UF	10%	25V
KD3420	1-237-407-11	RES, CIIII NEI W	OKK 47 (3.	210)		C2083	1-128-551-11		22UF	20%	25 V
		< VIBRATOR >				C2084	1-126-964-11		10UF	20%	50V
		(121111011)				C2085		CERAMIC CHIP	15PF	5%	50V
X3089	1-781-945-21	VIBRATOR, CERA	AMIC								
X3401	1-781-887-21	VIBRATOR, CRYS	STAL			C2087	1-164-160-11	CERAMIC CHIP	20PF	5%	50V
X3402	1-781-579-21	OSCILLATOR, CR	YSTAL			C2089	1-126-964-11	ELECT	10UF	20%	50V
						C2090	1-164-227-11	CERAMIC CHIP	0.022UF	10%	25V
						C2091	1-107-826-11	CERAMIC CHIP	0.1UF	10%	16V
*	A-1373-851-A	U BOARD, COMP				C2092	1-107-826-11	CERAMIC CHIP	0.1UF	10%	16V
		******	****								
		CADACTECE				C2094		CERAMIC CHIP	0.001UF	10%	50V
		< CAPACITOR >				C2096		CERAMIC CHIP	15PF	5%	50V
C2001	1 162 070 11	CED A MIC CHID	0.0111E	1.00/	2537	C2097 C2098		CERAMIC CHIP	15PF	5%	50V
C2001 C2002		CERAMIC CHIP CERAMIC CHIP	0.01UF 0.01UF	10% 10%	25V 25V	C2098 C2099		CERAMIC CHIP CERAMIC CHIP	0.1UF 0.1UF	10% 10%	16V 16V
C2002	1-102-970-11		470UF	20%	25 V 16 V	C2099	1-107-820-11	CERAMIC CHIP	0.101	1070	10 V
C2003	1-128-551-11		22UF	20%	25V	C2102	1-107-826-11	CERAMIC CHIP	0.1UF	10%	16V
C2004		CERAMIC CHIP	0.1UF	10%	16V	C2102		CERAMIC CHIP	0.1UF	10%	16V
C2003	1 107 020 11	CERT INTO CITI	0.101	1070	10 1	C2111	1-126-964-11		10UF	20%	50V
C2006	1-107-826-11	CERAMIC CHIP	0.1UF	10%	16V	C2112		CERAMIC CHIP	0.1UF	10%	16V
C2007	1-126-964-11		10UF	20%	50V	C2113		CERAMIC CHIP	0.1UF	10%	16V
C2008	1-126-964-11	ELECT	10UF	20%	50V						
C2012	1-126-964-11		10UF	20%	50V	C2114	1-107-826-11	CERAMIC CHIP	0.1UF	10%	16V
C2013	1-126-964-11	ELECT	10UF	20%	50V	C2122	1-126-964-11	ELECT	10UF	20%	50V
						C2128	1-126-964-11	ELECT	10UF	20%	50V
C2014	1-126-964-11		10UF	20%	50V	C2342		CERAMIC CHIP	0.1UF	10%	16V
C2015	1-126-964-11		10UF	20%	50V	C2348	1-126-947-11	ELECT	47UF	20%	25V
C2016	1-126-964-11		10UF	20%	50V	C22 :-	1 162 050 1	CED 13 550	0.0177	100:	2511
C2017	1-126-964-11		10UF	20%	50V	C2349		CERAMIC CHIP	0.01UF	10%	25V
C2018	1-126-960-11	ELECI	1UF	20%	50V	C2350	1-126-964-11	ELECI	10UF	20%	50V



REF.	NO.	PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTION		REMARK
C23	51	1-126-964-11	ELECT	10UF	20%	50V	D2040	8-719-800-76	1SS226		
C23			CERAMIC CHIP	0.01UF	10%	25V	D2041	8-719-800-76			
C23	53	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	D2042	8-719-110-53	RD10ESB2		
							D2043	8-719-800-76			
C23		1-137-368-11		0.0047UF		50V	D2044	8-719-800-76	1SS226		
C23		1-137-150-11		0.01UF	5%	50V					
C23			CERAMIC CHIP	100PF	5%	50V			< FERRITE BEAD	>	
C23 C23		1-126-933-11 1-126-933-11		100UF 100UF	20% 20%	16V 16V	ED2001	1-414-760-21	EEDDITE	0UH	
C23	30	1-120-933-11	ELECT	10001	2070	10 V		1-414-700-21		OUH	
C23	59	1-107-826-11	CERAMIC CHIP	0.1UF	10%	16V	1 D2002	1-414-445-11	TERRITE	0011	
C23		1-137-368-11		0.0047UF		50V			< FILTER >		
C23		1-136-169-00	FILM	0.22UF	5%	50V					
C23		1-137-150-11	MYLAR	0.01UF	5%	50V			FILTER, LOW PAS		
C23	67	1-137-368-11	MYLAR	0.0047UF	5%	50V			FILTER, LOW PAS		
							FL2003	1-239-848-11	FILTER, LOW PAS	S	
C23	68	1-136-169-00	FILM	0.22UF	5%	50V			.10.		
			COMMECTOR						< IC >		
			< CONNECTOR >				IC2001	8-759-351-01	TE A 6422DT		
CN	2001*	1_793_923_11	CONNECTOR, DIN	V (PLUG) 6	4P		IC2001 IC2003	8-759-100-96			
			PLUG. CONNECTO	. ,			IC2003	8-752-080-04			
0111	-002	100.02011	1200,00111201	011 111			IC2007		CXD2073Q-T4		
			< DIODE >				IC2302		NJM2370U10-TE2		
D20		8-719-110-53					IC2304	8-759-711-10			
D20		8-719-110-53					IC2305	8-759-686-15	NJM2180M		
D20		8-719-110-53							LACIZ		
D20 D20		8-719-800-76 8-719-800-76							< JACK >		
D20	703	0 717 000 70	155220				J2001	1-573-967-12	BLOCK, (S) TERM	IINAL	
D20	006	8-719-800-76	1SS226				J2002	1-764-143-11			
D20	007	8-719-110-53	RD10ESB2				J2003	1-764-143-11	JACK		
D20		8-719-110-53					J2004		JACK BLOCK, PIN		
D20		8-719-800-76					J2005	1-815-015-11	JACK BLOCK, PIN	1	
D20	010	8-719-800-76	1SS226				12006	1 015 015 11	IACK DI OCK DIN	T	
D20	11.1	8-719-800-76	199226				J2006 J2007		JACK BLOCK, PIN		
D20		8-719-800-70					J2007 J2008		JACK BLOCK, PIN		
D20		8-719-110-53					12000	1 700 017 21	unem BEG em, rm	. 51	
D20		8-719-110-53							< COIL >		
D20	15	8-719-110-53	RD10ESB2								
							L2302	1-469-555-21	INDUCTOR	10UH	
D20		8-719-110-53							TD AMGRETOD		
D20 D20		8-719-110-53 8-719-110-53							< TRANSISTOR >		
D20		8-719-110-53					Q2001	8-729-422-27	2SD601A-O		
D20		8-719-110-53					Q2001 Q2002		2SA1037AK-T146-	R	
							Q2003		2SA1037AK-T146-		
D20		8-719-110-53	RD10ESB2				Q2004	8-729-422-27	2SD601A-Q		
D20		8-719-110-53					Q2005	8-729-422-27	2SD601A-Q		
D20		8-719-110-53						0.000	AGD 4011 2		
D20		8-719-110-53					Q2006	8-729-422-27			
D20	123	8-719-110-53	KD10ESB2				Q2007 Q2008	8-729-422-27 8-729-422-27			
D20	26	8-719-110-53	RD10FSR2				Q2008 Q2009	8-729-422-27			
D20		8-719-110-53					Q2009 Q2012		2SA1037AK-T146-	R	
D20		8-719-110-53					~ -				
D20	30	8-719-110-53					Q2013	8-729-422-27	2SD601A-Q		
D20	31	8-719-800-76	1SS226				Q2015	8-729-422-27	-		
D. 4.0	22	0.510.000.5	100006				Q2016	8-729-422-27	•		
D20		8-719-800-76					Q2017	8-729-422-27		D	
D20 D20		8-719-991-33 8-719-991-33					Q2019	0-729-020-49	2SA1037AK-T146-	·K	
D20		8-719-991-33 8-719-110-53					Q2020	8-729-422-27	2SD601A-O		
D20		8-719-110-53					Q2020 Q2021		2SA1037AK-T146-	R	
							Q2022	8-729-422-27			
							Q2024	8-729-422-27			
							Q2025	8-729-422-27	2SD601A-Q		



REF. NO.	PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTION			REMARK
Q2026	8-729-026-49	2SA1037AK-T146-	-R			R2052	1-216-817-11	RES-CHIP	470	5%	1/16W
Q2027	8-729-026-49	2SA1037AK-T146-	-R			R2053	1-216-817-11	RES-CHIP	470	5%	1/16W
Q2028	8-729-026-49	2SA1037AK-T146-	-R			R2054	1-216-806-11	RES-CHIP	56	5%	1/16W
Q2029	8-729-120-28	2SC1623-L5L6				R2055	1-216-821-11	RES-CHIP	1K	5%	1/16W
Q2301	8-729-422-27	2SD601A-O				R2056	1-216-821-11	RES-CHIP	1K	5%	1/16W
(
		< RESISTOR >				R2057	1-216-806-11	RES-CHIP	56	5%	1/16W
		\ KLSISTOR >				R2058		METAL CHIP	10K	0.5%	1/16W
P2001	1 210 205 11	DEC CHID	75	5%	1/16W/	R2059	1-216-710-11		470	5%	1/16W
R2001	1-218-285-11				1/16W						
R2002	1-216-853-11		470K	5%	1/16W	R2060	1-216-817-11		470	5%	1/16W
R2003		METAL CHIP	75		1/16W	R2061	1-216-817-11	RES-CHIP	470	5%	1/16W
R2004		METAL CHIP	75	0.5%	1/16W						
R2005	1-218-665-11	METAL CHIP	75	0.5%	1/16W	R2062	1-216-817-11		470	5%	1/16W
						R2063	1-216-809-11	RES-CHIP	100	5%	1/16W
R2006	1-216-853-11	RES-CHIP	470K	5%	1/16W	R2064	1-216-809-11	RES-CHIP	100	5%	1/16W
R2007	1-216-853-11	RES-CHIP	470K	5%	1/16W	R2065	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R2008	1-218-665-11	METAL CHIP	75	0.5%	1/16W	R2066	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R2009		METAL CHIP	75	0.5%	1/16W						
R2010		METAL CHIP	75	0.5%	1/16W	R2067	1-216-809-11	RES_CHIP	100	5%	1/16W
112010	1 210 005 11	WEIGH CIM	7.5	0.570	1, 10 11	R2068	1-216-825-11		2.2K	5%	1/16W
R2011	1-216-853-11	DEC CHID	470K	5%	1/16W	R2069	1-216-825-11		2.2K 2.2K	5%	1/16W
					I						1/16W
R2012	1-216-853-11		470K	5%	1/16W	R2070	1-216-825-11		2.2K	5%	
R2013	1-216-853-11		470K	5%	1/16W	R2071	1-216-809-11	RES-CHIP	100	5%	1/16W
R2014	1-216-853-11		470K	5%	1/16W						
R2015	1-216-853-11	RES-CHIP	470K	5%	1/16W	R2072	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
						R2073	1-216-809-11	RES-CHIP	100	5%	1/16W
R2016	1-216-853-11	RES-CHIP	470K	5%	1/16W	R2074	1-216-809-11	RES-CHIP	100	5%	1/16W
R2017	1-218-665-11	METAL CHIP	75	0.5%	1/16W	R2075	1-216-809-11	RES-CHIP	100	5%	1/16W
R2018	1-216-853-11	RES-CHIP	470K	5%	1/16W	R2077	1-216-809-11	RES-CHIP	100	5%	1/16W
R2019	1-216-853-11	RES-CHIP	470K	5%	1/16W						
R2020		METAL CHIP	75	0.5%	1/16W	R2080	1-216-809-11	RES-CHIP	100	5%	1/16W
112020	1 210 005 11	WEIGH CIM	7.5	0.570	1, 10 11	R2081	1-216-809-11		100	5%	1/16W
R2021	1 210 665 11	METAL CHIP	75	0.5%	1/16W	R2081	1-216-829-11		4.7K	5%	1/16W
					I						
R2022		METAL CHIP	75 47017	0.5%	1/16W	R2084	1-216-809-11		100	5%	1/16W
R2023	1-216-853-11		470K	5%	1/16W	R2085	1-216-821-11	RES-CHIP	1K	5%	1/16W
R2024	1-216-853-11		470K	5%	1/16W						
R2025	1-218-665-11	METAL CHIP	75	0.5%	1/16W	R2086	1-216-829-11		4.7K	5%	1/16W
						R2087	1-216-809-11	RES-CHIP	100	5%	1/16W
R2026	1-218-665-11	METAL CHIP	75	0.5%	1/16W	R2089	1-216-809-11	RES-CHIP	100	5%	1/16W
R2027	1-218-665-11	METAL CHIP	75	0.5%	1/16W	R2090	1-216-821-11	RES-CHIP	1K	5%	1/16W
R2028	1-216-809-11	RES-CHIP	100	5%	1/16W	R2091	1-216-806-11	RES-CHIP	56	5%	1/16W
R2029	1-216-809-11		100	5%	1/16W						
R2030	1-216-809-11		100	5%	1/16W	R2092	1-216-806-11	RES-CHIP	56	5%	1/16W
112030	1 210 000 11	res em	100	570	1,1011	R2094	1-216-864-11		0	570	1/10 **
R2031	1-216-841-11	RES-CHIP	47K	5%	1/16W	R2096	1-216-809-11		100	5%	1/16W
R2031	1-216-845-11		100K	5%	I	R2090					
					1/16W		1-216-809-11		100	5% 5%	1/16W
R2034	1-216-803-11		33	5%	1/16W	R2098	1-216-825-11	KES-CHIP	2.2K	5%	1/16W
R2035	1-216-809-11		100	5%	1/16W	D2000	1.014.000.11	DEC CHE	100	501	1 /1 (33)
R2036	1-216-809-11	KES-CHIP	100	5%	1/16W	R2099	1-216-809-11		100	5%	1/16W
						R2100	1-216-825-11		2.2K	5%	1/16W
R2037	1-216-809-11		100	5%	1/16W	R2103	1-216-809-11		100	5%	1/16W
R2038	1-216-809-11	RES-CHIP	100	5%	1/16W	R2104	1-216-809-11	RES-CHIP	100	5%	1/16W
R2039	1-216-833-11	RES-CHIP	10K	5%	1/16W	R2105	1-216-809-11	RES-CHIP	100	5%	1/16W
R2040	1-216-857-11	RES-CHIP	1M	5%	1/16W						
R2041	1-216-842-11	RES-CHIP	56K	5%	1/16W	R2107	1-216-807-11	RES-CHIP	68	5%	1/16W
-						R2109	1-216-809-11		100	5%	1/16W
R2042	1-216-825-11	RES-CHIP	2.2K	5%	1/16W	R2110	1-216-809-11		100	5%	1/16W
R2043	1-216-809-11		100	5%	1/16W	R2110	1-216-825-11		2.2K	5%	1/16W
R2043	1-216-806-11		56	5%	1/16W	R2111	1-216-821-11		2.2K 1K	5%	1/16W
					I	K2113	1-210-021-11	MES-CHIF	11X	J 70	1/ 1 U VV
R2045	1-216-806-11		56	5%	1/16W	D0114	1 217 922 11	DEC CHIP	0.217	E0/	1/1/337
R2046	1-216-818-11	KES-CHIP	560	5%	1/16W	R2116	1-216-832-11		8.2K	5%	1/16W
				_		R2118	1-216-821-11		1K	5%	1/16W
R2047	1-216-809-11		100	5%	1/16W	R2121	1-216-809-11		100	5%	1/16W
R2048	1-216-829-11	RES-CHIP	4.7K	5%	1/16W	R2122	1-216-821-11	RES-CHIP	1K	5%	1/16W
R2049	1-216-809-11	RES-CHIP	100	5%	1/16W	R2123	1-218-684-11	METAL CHIP	470	0.5%	1/16W
R2050	1-216-829-11	RES-CHIP	4.7K	5%	1/16W						
R2051	1-216-809-11	RES-CHIP	100	5%	1/16W	R2124	1-216-821-11	RES-CHIP	1K	5%	1/16W
						R2125		METAL CHIP	2.7K		1/16W
					'					, -	



REF. NO.	PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTION			REMARK
R2128	1-216-825-11		2.2K	5%	1/16W	R2354	1-216-841-11	RES-CHIP	47K	5%	1/16W
R2130	1-216-809-11		100	5%	1/16W	Daass	1 210 000 11	DEG CHID	COTT	50/	1 /1 (11)
R2131	1-216-825-11	RES-CHIP	2.2K	5%	1/16W	R2355	1-218-890-11		62K	5%	1/16W
D0100	1 216 922 11	DEC CHID	1017	50/	1/1/337	R2356	1-216-842-11		56K	5%	1/16W
R2132	1-216-833-11		10K	5%	1/16W	R2357	1-216-833-11		10K	5%	1/16W
R2133		METAL CHIP	180	0.5%		R2358	1-216-839-11		33K	5%	1/16W
R2136	1-216-816-11		390	5%	1/16W	R2359	1-216-824-11	RES-CHIP	1.8K	5%	1/16W
R2137		METAL CHIP	2.2K	0.5%							
R2138	1-216-809-11	RES-CHIP	100	5%	1/16W	R2360	1-216-861-11		2.2M	5%	1/16W
						R2363	1-216-864-11		0		
R2142	1-216-815-11	RES-CHIP	330	5%	1/16W	R2365	1-216-833-11	RES-CHIP	10K	5%	1/16W
R2147	1-216-814-11	RES-CHIP	270	5%	1/16W	R2366	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R2148	1-218-710-11	METAL CHIP	5.6K	0.5%	1/16W	R2369	1-216-864-11	SHORT	0		
R2149	1-216-817-11	RES-CHIP	470	5%	1/16W						
R2150	1-216-821-11	RES-CHIP	1K	5%	1/16W	R2376	1-216-833-11	RES-CHIP	10K	5%	1/16W
						R2377	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R2151	1-218-698-11	METAL CHIP	1.8K	0.5%	1/16W	R2379	1-216-842-11		56K	5%	1/16W
R2152		METAL CHIP	1.2K	0.5%	1/16W	R2380	1-216-821-11		1K	5%	1/16W
R2153	1-216-821-11		1K	5%	1/16W	R2381	1-216-831-11		6.8K	5%	1/16W
R2155	1-216-837-11		22K	5%	1/16W	112501	1 210 031 11	RES CITI	0.011	570	1/10 **
R2156	1-216-841-11		47K	5%	1/16W	R2382	1-216-829-11	RES_CHIP	4.7K	5%	1/16W
K2130	1-210-041-11	KL5-CIII	4/IX	570	1/10 **	R2383	1-216-829-11		4.7K	5%	1/16W
R2157	1 216 925 11	DEC CHID	2.2K	5%	1/16W	R2384	1-216-833-11		4.7K 10K	5%	1/16W
R2157 R2159	1-216-825-11		8.2K			R2385	1-216-835-11				1/16W 1/16W
	1-216-832-11			5%	1/16W				15K	5%	
R2164		METAL CHIP	5.6K	0.5%	1/16W	R2386	1-216-837-11	RES-CHIP	22K	5%	1/16W
R2166	1-216-818-11		560	5%	1/16W	D. 200		DEG GIVE	4.77		4 /4
R2169	1-216-842-11	RES-CHIP	56K	5%	1/16W	R2387	1-216-821-11		1K	5%	1/16W
D0150	1 21 5 010 11	DEG GUID	~-0	~ ~	4 /4	R2390	1-216-847-11		150K	5%	1/16W
R2173	1-216-818-11		560	5%	1/16W	piololololololololololololo	ololololololololololololololololo		piolololololololololololol	olololololo	iololololololololololol
R2174		METAL CHIP	560	0.5%							
R2175	1-216-817-11		470	5%	1/16W						
R2176	1-216-825-11		2.2K	5%	1/16W		* A-1299-523-A	A AD BOARD, COM			
R2177	1-216-809-11	RES-CHIP	100	5%	1/16W			******	*****		
R2178		METAL CHIP	220	0.5%	1/16W			< CAPACITOR >			
R2182	1-216-864-11	SHORT	0								
R2183	1-216-813-11	RES-CHIP	220	5%	1/16W	C1601	1-126-933-11	ELECT	100UF	20%	16V
R2184	1-218-704-11	METAL CHIP	3.3K	0.5%	1/16W	C1604	1-164-156-11	CERAMIC CHIP	0.1UF		25V
R2185	1-218-684-11	METAL CHIP	470	0.5%	1/16W	C1605	1-164-156-11	CERAMIC CHIP	0.1UF		25V
						C1606	1-164-156-11	CERAMIC CHIP	0.1UF		25V
R2186	1-218-688-11	METAL CHIP	680	0.5%	1/16W	C1607	1-126-933-11	ELECT	100UF	20%	16V
R2187	1-216-864-11	SHORT	0								
R2193	1-216-809-11	RES-CHIP	100	5%	1/16W	C1608	1-164-156-11	CERAMIC CHIP	0.1UF		25V
R2194	1-216-817-11	RES-CHIP	470	5%	1/16W	C1609	1-162-966-11	CERAMIC CHIP	0.0022UF	10%	50V
R2195	1-216-817-11	RES-CHIP	470	5%	1/16W	C1610	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
						C1611		CERAMIC CHIP	0.1UF		25V
R2196	1-216-817-11	RES-CHIP	470	5%	1/16W	C1612		CERAMIC CHIP	0.1UF		25V
R2197	1-216-817-11		470	5%	1/16W				-		
R2198	1-216-853-11		470K	5%	1/16W	C1613	1-164-156-11	CERAMIC CHIP	0.1UF		25V
R2199	1-216-853-11		470K	5%	1/16W	C1614		CERAMIC CHIP	0.1UF		25V
R2324	1-216-864-11		0	- / 0		C1615		CERAMIC CHIP	0.1UF		25V
112321	1 210 001 11	BIIOILI	Ü			C1616		CERAMIC CHIP	0.1UF		25V
R2325	1-216-864-11	SHORT	0			C1617		CERAMIC CHIP	0.1UF		25 V 25 V
R2323	1-216-864-11		0			C1017	1-104-130-11	CLICAIVIIC CIIII	0.101		23 v
R2331	1-216-833-11		10K	5%	1/16W	C1618	1-126-933-11	EI ECT	100UF	20%	16V
										20%	
R2341	1-216-832-11		8.2K	5% 5%	1/16W	C1619		CERAMIC CHIP	0.1UF	50/	25V
R2342	1-216-824-11	KES-CHIP	1.8K	5%	1/16W	C1620		CERAMIC CHIP	27PF	5%	50V
D00 10	1.016.000.41	DEC CHIE	0.077	5 07	1 /1 (177	C1621		CERAMIC CHIP	0.1UF	F0:	25V
R2343	1-216-832-11		8.2K	5%	1/16W	C1622	1-162-917-11	CERAMIC CHIP	15PF	5%	50V
R2344	1-216-824-11		1.8K	5%	1/16W	C1	1 1 20 0 2 = 2 2	CED 13 772	1000	0.55	DESCII
R2345	1-216-864-11		0			C1623		CERAMIC CHIP	10PF		PF50V
R2346	1-216-864-11		0			C1624		CERAMIC CHIP	10PF	0.50	PF50V
R2347	1-216-843-11	RES-CHIP	68K	5%	1/16W	C1625		CERAMIC CHIP	0.1UF		25V
						C1626		CERAMIC CHIP	0.1UF		25V
R2348	1-216-838-11		27K	5%	1/16W	C1627	1-164-156-11	CERAMIC CHIP	0.1UF		25V
R2349	1-216-833-11		10K	5%	1/16W						
R2350	1-216-797-11		10	5%	1/16W	C1628		CERAMIC CHIP	0.1UF		25V
R2353	1-216-823-11	RES-CHIP	1.5K	5%	1/16W	C1629	1-164-156-11	CERAMIC CHIP	0.1UF		25V



REF. NO.	PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTION			REMARK
C1630	1-164-156-11	CERAMIC CHIP	0.1UF		25V	C1698	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C1631	1-126-933-11		100UF	20%	16V	C1699		CERAMIC CHIP	0.1UF		25V
C1632	1-164-156-11	CERAMIC CHIP	0.1UF		25V	C1700	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C1633		CERAMIC CHIP	0.1UF	200/	25V	C1701		CERAMIC CHIP	0.0047UF		50V
C1634 C1635	1-126-963-11	CERAMIC CHIP	4.7UF 47PF	20% 5%	50V 50V	C1704 C1707	1-126-933-11	CERAMIC CHIP	100UF 0.001UF	20% 5%	16V 25V
C1635		CERAMIC CHIP	0.1UF	10%	16V	C1707		CERAMIC CHIP	0.0010F 0.0022UF		50V
C1637		CERAMIC CHIP	22PF	5%	50V	C1709		CERAMIC CHIP	0.001UF	5%	25V
C1638		CERAMIC CHIP	22PF	5%	50V	C1711		CERAMIC CHIP	0.0022UF	10%	50V
C1639	1-126-933-11	ELECT	100UF	20%	16V	C1712		CERAMIC CHIP	0.1UF		25V
C1640	1 126 022 11	FLECT	100115	200/	1617	C1714		CERAMIC CHIP	0.1UF		25V
C1640	1-126-933-11	ELECI	100UF	20%	16V	C1715 C1717		CERAMIC CHIP CERAMIC CHIP	0.1UF 100PF	5%	25V 50V
C1641	1-164-156-11	CERAMIC CHIP	0.1UF		25V	C1/1/	1-102-727-11	CERAINIC CIII	10011	370	30 v
C1643		CERAMIC CHIP	0.1UF		25V	C1718	1-164-156-11	CERAMIC CHIP	0.1UF		25V
						C1720	1-162-910-11	CERAMIC CHIP	5PF 0	.25PF	50V
C1644		CERAMIC CHIP	0.1UF		25V	C1721		CERAMIC CHIP	100PF	5%	50V
C1645		CERAMIC CHIP	0.001UF	5%	25V	C1722		CERAMIC CHIP			50V
C1646		CERAMIC CHIP	0.001UF	5%	25V	C1730	1-126-916-11	ELECT	1000UF	20%	6.3V
C1647 C1649		CERAMIC CHIP CERAMIC CHIP	0.0022UF 0.0022UF		50V 50V	C1731	1_162_970_11	CERAMIC CHIP	0.01UF	10%	25V
C1047	1-102-700-11	CERAWIC CIII	0.002201	1070	30 1	C1731 C1732		CERAMIC CHIP	0.01UF	10%	25 V
C1651	1-164-156-11	CERAMIC CHIP	0.1UF		25V	C1733		CERAMIC CHIP	0.01UF	10%	25V
C1652	1-164-156-11	CERAMIC CHIP	0.1UF		25V	C1734	1-162-970-11	CERAMIC CHIP	0.01UF	10%	25V
C1656		CERAMIC CHIP	0.1UF		25V						
C1657		CERAMIC CHIP	0.1UF		25V			< CONNECTOR >			
C1658	1-164-156-11	CERAMIC CHIP	0.1UF		25V	CN1601	1 573 301 21	CONNECTOR, BO	A DD TO B	OADI	20P
C1659	1-164-156-11	CERAMIC CHIP	0.1UF		25V			CONNECTOR, BO			
C1661		CERAMIC CHIP	0.1UF		25 V	C111002	1 373 301 21	COTTILETOR, BO	THED TO B	02 1141	201
C1663	1-126-933-11	ELECT	100UF	20%	16V			< DIODE >			
C1664	1-126-933-11		100UF	20%	16V						
C1665	1-126-933-11	ELECT	100UF	20%	16V	D1601	8-719-404-50				
C1666	1 162 027 11	CERAMIC CHIP	100PF	5%	50V	D1603 D1604	8-719-404-50	UDZSTE-175.1B			
C1668		CERAMIC CHIP	100FF	5%	50V	D1604 D1605		UDZSTE-175.1B			
C1669		CERAMIC CHIP).25PF	50V	D1606		UDZSTE-175.1B			
C1670	1-164-156-11	CERAMIC CHIP	0.1UF		25V						
C1671	1-164-156-11	CERAMIC CHIP	0.1UF		25V	D1607	8-719-069-54	UDZSTE-175.1B			
C1 670	1 164 156 11	CED A MIC CHID	0.1115		2517			. PEDDITE DE AD			
C1672 C1673		CERAMIC CHIP CERAMIC CHIP	0.1UF 5PF ().25PF	25V 50V			< FERRITE BEAD	>		
C1674		CERAMIC CHIP	0.001UF	5%	25V	FB1601	1-414-445-11	FERRITE	0UH		
C1675		CERAMIC CHIP	0.001UF	5%	25V	FB1602	1-414-445-11		0UH		
C1676	1-162-966-11	CERAMIC CHIP	0.0022UF	10%	50V	FB1603	1-414-445-11	FERRITE	0UH		
						FB1604	1-414-445-11		0UH		
C1677	1-126-933-11		100UF	20%	16V	FB1605	1-414-445-11	FERRITE	0UH		
C1678 C1680		CERAMIC CHIP CERAMIC CHIP	0.0022UF 0.1UF	10%	50V 25V	FB1606	1-414-445-11	FERRITE	0UH		
C1681		CERAMIC CHIP	0.1UF		25 V 25 V	FB1607	1-414-445-11		0UH		
C1682		CERAMIC CHIP	0.1UF		25 V	FB1608	1-414-445-11		0UH		
						FB1609	1-414-445-11	FERRITE	0UH		
C1683		CERAMIC CHIP	0.1UF		25V	FB1610	1-414-445-11	FERRITE	0UH		
C1684		CERAMIC CHIP	0.1UF		25V	ED1611	1 414 445 11	FEDDITE	OLIII		
C1685 C1688		CERAMIC CHIP CERAMIC CHIP	0.1UF 0.1UF		25V 25V	FB1611 FB1612	1-414-445-11 1-414-445-11		0UH 0UH		
C1690		CERAMIC CHIP	100PF	5%	50V	FB1613	1-414-445-11		OUH		
	/=, 11			0		FB1614	1-414-445-11		0UH		
C1691	1-126-933-11	ELECT	100UF	20%	16V	FB1615	1-414-445-11		0UH		
C1692	1-126-933-11		100UF	20%	16V						
C1693	1-126-933-11		100UF	20%	16V	FB1616	1-414-445-11		0UH		
C1694 C1695		CERAMIC CHIP CERAMIC CHIP	100PF 5PF	5% 0.25PF	50V 50V	FB1617	1-414-445-11	FERRITE	0UH		
C1093	1-102-710-11	CLICAIVIIC CHIF	J11	0.231 F	JU ¥			< IC >			
C1696	1-162-910-11	CERAMIC CHIP	5PF	0.25PF	50V			- 1			
C1697	1-164-156-11	CERAMIC CHIP	0.1UF		25V	IC1601	8-759-683-55	IC CM0017AF			



REF. NO.	PART NO.	DESCRIPTION		REMAI	K REF. N	O. PART NO.	DESCRIPTION		_ [REMARK
									-	
IC1602		IC NJM2068V-TE2			R165		1 RES-CHIP	330	5%	1/16W
IC1603		IC NJM2068V-TE2			R165		1 RES-CHIP	1K 470	5% 5%	1/16W
IC1605 IC1606	8-759-352-91 8-752-925-71	IC CXP86448-635Q)		R165 R165		1 RES-CHIP 1 RES-CHIP	470 4.7K	5% 5%	1/16W 1/16W
101000	6-732-923-71	IC CXI 80448-033C	2		R165		1 METAL CHIP	2.2K	0.5%	1/16W
IC1607	8-759-682-41	M24C32-WMN6T(A)		11100	1 210 700 1		2.211	0.270	1/10//
IC1608		IC CD0031AM	,		R165	6 1-218-692-1	1 METAL CHIP	1K	0.5%	1/16W
IC1609	8-759-830-08	IC NJM2068V-TE2			R165	7 1-216-821-1	1 RES-CHIP	1K	5%	1/16W
IC1610	8-759-830-08	IC NJM2068V-TE2			R165	8 1-216-837-1	1 RES-CHIP	22K	5%	1/16W
IC1611	8-759-830-08	IC NJM2068V-TE2			R165		1 RES-CHIP	22K	5%	1/16W
IC1612	0.750.020.00	IC NIIM2000V TE2			R166	0 1-216-821-1	1 RES-CHIP	1K	5%	1/16W
IC1612	8-759-830-08	IC NJM2068V-TE2			R166	1 1 216 921 1	1 RES-CHIP	1K	5%	1/16W
		< COIL >			R166		1 RES-CHIP	3.3K	5%	1/16W
		(COIL)			R166		1 RES-CHIP	560	5%	1/16W
L1601	1-469-555-21	INDUCTOR	10UH		R166		1 METAL CHIP	1K		1/16W
L1602	1-469-555-21	INDUCTOR	10UH		R166	6 1-218-692-1	1 METAL CHIP	1K	0.5%	1/16W
		< TRANSISTOR >			R166		1 METAL CHIP	1K		1/16W
0.1.502	0.700 400 07	200 (01) 0			R166		1 METAL CHIP	1K	0.5%	1/16W
Q1603	8-729-422-27				R166		1 METAL CHIP	22K		1/16W
Q1604 Q1605	8-729-422-27 8-729-422-27				R167 R167		1 METAL CHIP	22K 22K		1/16W 1/16W
Q1603 Q1606	8-729-422-27				K107	1 1-216-724-1	1 METAL CHIP	22 K	0.5%	1/10 VV
Q1000	0 12) 422 21	25D00111 Q			R167	2. 1-218-724-1	1 METAL CHIP	22K	0.5%	1/16W
		< RESISTOR >			R167		1 METAL CHIP	10K		1/16W
					R167		1 METAL CHIP	10K	0.5%	1/16W
R1601	1-216-841-11	RES-CHIP	47K 59	6 1/16W	R167	5 1-218-716-1	1 METAL CHIP	10K	0.5%	1/16W
R1604	1-216-833-11	RES-CHIP	10K 59	6 1/16W	R167	6 1-216-821-1	1 RES-CHIP	1K	5%	1/16W
R1605	1-216-821-11		1K 59		1					
R1606	1-216-821-11		1K 59				1 METAL CHIP	10K		1/16W
R1607	1-216-821-11	RES-CHIP	1K 59	6 1/16W			1 METAL CHIP	1K	0.5%	1/16W
D1600	1 216 900 11	DEC CHID	100 50	/ 1/1 /3 W	R168		1 METAL CHIP	1K	0.5% 0.5%	1/16W 1/16W
R1608 R1609	1-216-809-11 1-216-809-11		100 59 100 59				1 METAL CHIP 1 METAL CHIP	1K 1K		1/16W 1/16W
R1611	1-216-825-11		2.2K 59			3 1-210-072-1	1 WILLIAL CITII	TIX.	0.570	1/10**
R1614	1-216-825-11		2.2K 59		1	0 1-218-724-1	1 METAL CHIP	22K	0.5%	1/16W
R1615	1-216-821-11		1K 59				1 METAL CHIP	22K		1/16W
					R169	2 1-218-724-1	1 METAL CHIP	22K	0.5%	1/16W
R1618	1-216-809-11		100 59	6 1/16W			1 METAL CHIP	22K		1/16W
R1619	1-216-864-11		0		R169	4 1-218-716-1	1 METAL CHIP	10K	0.5%	1/16W
R1620	1-216-809-11		100 59			5 1 210 516 1	1 METAL CHIP	1077	0.50/	1 /1 (11)
R1621	1-216-821-11		1K 59				1 METAL CHIP	10K		1/16W 1/16W
R1622	1-216-817-11	кез-спір	470 59	6 1/16W	R169 R169		1 METAL CHIP 1 METAL CHIP	10K 10K		1/16W 1/16W
R1623	1-216-821-11	RES_CHIP	1K 59	6 1/16W			1 METAL CHIP	1K		1/16W
R1625	1-216-821-11		1K 59				1 METAL CHIP	1K		1/16W
R1627	1-216-821-11		1K 59			- -				
R1634	1-216-809-11		100 59	6 1/16W	R170	0 1-218-692-1	1 METAL CHIP	1K	0.5%	1/16W
R1635	1-216-809-11	RES-CHIP	100 59	6 1/16W	1		1 METAL CHIP	1K		1/16W
	4.04 - 05 - 1	DDG G	1077		R170		1 METAL CHIP	22K		1/16W
R1636	1-216-833-11		10K 59				1 METAL CHIP	22K		1/16W
R1637 R1638	1-216-821-11 1-216-821-11		1K 59 1K 59			4 1-218-724-I	1 METAL CHIP	22K	0.5%	1/16W
R1639	1-216-821-11		100 59		I	5 1 218 716 1	1 METAL CHIP	10K	0.5%	1/16W
R1640	1-216-837-11		22K 59				1 METAL CHIP	22K		1/16W
111010	1 210 037 11	RES CIM	2211 37	0 1/10/	R170		1 METAL CHIP	10K		1/16W
R1641	1-216-825-11	RES-CHIP	2.2K 59	6 1/16W	1		1 METAL CHIP	10K		1/16W
R1642	1-216-821-11		1K 59				1 METAL CHIP	10K		1/16W
R1643	1-216-821-11	RES-CHIP	1K 59	6 1/16W						
R1644	1-216-825-11		2.2K 59					0	_	
R1645	1-216-815-11	RES-CHIP	330 59	6 1/16W			1 RES-CHIP	10K	5%	1/16W
D1646	1 216 925 11	DEC CHIP	2.21/ 50	/ 1/1/33	R171		1 RES-CHIP	10K	5%	1/16W
R1646 R1647	1-216-825-11 1-216-833-11		2.2K 59 10K 59				1 RES-CHIP 1 RES-CHIP	10K 10K	5% 5%	1/16W 1/16W
R1647 R1648	1-216-833-11		10K 59			T 1-210-033-1	1 KES-CHIP	101	J 70	1/10 98
R1649	1-216-809-11		100 59							
R1650	1-216-815-11		330 59		1					





REF. NO.	PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTION			REMARK
		< NETWORK RES	ISTOR >			C44	1-126-947-11	ELECT	47UF	20%	16V
						C45	1-162-968-11	CERAMIC CHIP	0.0047UF	10%	50V
RB1603	1-233-576-11	RES, CHIP NETWO	ORK 100			C46	1-162-974-11	CERAMIC CHIP	0.01UF		50V
RB1604	1-233-576-11	RES, CHIP NETWO	ORK 100			C47	1-162-968-11	CERAMIC CHIP	0.0047UF	10%	50V
RB1605	1-233-576-11	RES, CHIP NETWO	ORK 100								
						C49	1-164-156-11	CERAMIC CHIP	0.1UF		25V
		< VIBRATOR >				C50	1-162-917-11	CERAMIC CHIP	15PF	5%	50V
						C51	1-126-947-11	ELECT	47UF	20%	16V
X1601	1-767-925-21	VIBRATOR, CRYS	TAL			C52	1-162-974-11	CERAMIC CHIP	0.01UF		50V
						C53	1-164-156-11	CERAMIC CHIP	0.1UF		25V
						C54	1-162-968-11	CERAMIC CHIP	0.0047UF	10%	50V
*	· A-1299-428-A	A BOARD, COMP	LETE			C55	1-162-968-11	CERAMIC CHIP	0.0047UF	10%	50V
		******	****			C56	1-164-156-11	CERAMIC CHIP	0.1UF		25V
						C57	1-164-156-11	CERAMIC CHIP	0.1UF		25V
	4-382-854-11	SCREW (M3X10),	P, SW (+)			C59	1-164-156-11	CERAMIC CHIP	0.1UF		25V
		< CAPACITOR >				C60	1-164-156-11	CERAMIC CHIP	0.1UF		25V
						C61	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C1	1-126-933-11	ELECT	100UF	20%	16V	C62	1-126-947-11	ELECT	47UF	20%	16V
C2	1-104-665-11	ELECT	100UF	20%	25V	C63	1-126-935-11	ELECT	470UF	20%	6.3V
C3	1-164-156-11	CERAMIC CHIP	0.1UF		25V	C65	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C4	1-164-156-11	CERAMIC CHIP	0.1UF		25V						
C5	1-164-156-11	CERAMIC CHIP	0.1UF		25V	C66	1-164-156-11	CERAMIC CHIP	0.1UF		25V
						C67	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C6	1-164-156-11	CERAMIC CHIP	0.1UF		25V	C68	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C7	1-126-933-11	ELECT	100UF	20%	16V	C69	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C8	1-164-156-11	CERAMIC CHIP	0.1UF		25V	C70	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C9	1-115-416-11	CERAMIC CHIP	0.001UF	5%	25V						
C10	1-162-974-11	CERAMIC CHIP	0.01UF		50V	C73	1-164-156-11	CERAMIC CHIP	0.1UF		25V
						C74	1-126-964-11	ELECT	10UF	20%	50V
C11	1-126-933-11	ELECT	100UF	20%	16V	C75	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C12	1-126-933-11	ELECT	100UF	20%	16V	C76	1-162-966-11	CERAMIC CHIP	0.0022UF	10%	50V
C13	1-164-392-11	CERAMIC CHIP	390PF	5%	50V	C77	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C14	1-164-156-11	CERAMIC CHIP	0.1UF		25V						
C15	1-164-392-11	CERAMIC CHIP	390PF	5%	50V	C78	1-104-665-11	ELECT	100UF	20%	25V
						C79	1-126-933-11	ELECT	100UF	20%	16V
C16	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	C80	1-126-967-11	ELECT	47UF	20%	50V
C17	1-164-156-11	CERAMIC CHIP	0.1UF		25V	C81	1-104-665-11	ELECT	100UF	20%	10V
C18	1-162-975-11	CERAMIC CHIP	24PF	5%	50V	C82	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C19	1-162-975-11	CERAMIC CHIP	24PF	5%	50V						
C20	1-164-156-11	CERAMIC CHIP	0.1UF		25V	C83	1-164-156-11	CERAMIC CHIP	0.1UF		25V
						C84	1-126-933-11	ELECT	100UF	20%	16V
C21	1-164-156-11	CERAMIC CHIP	0.1UF		25V	C85	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C22		CERAMIC CHIP	0.1UF		25V	C86	1-162-970-11	CERAMIC CHIP	0.01UF	10%	16V
C23		CERAMIC CHIP	0.01UF		50V	C87	1-126-960-11	ELECT	1UF	20%	50V
C24	1-126-947-11	ELECT	47UF	20%	16V						
C26	1-164-156-11	CERAMIC CHIP	0.1UF		25V	C88	1-126-933-11	ELECT	100UF	20%	16V
						C90	1-126-964-11	ELECT	10UF	20%	50V
C27	1-126-947-11		47UF	20%	16V	C92		CERAMIC CHIP	0.1UF		25V
C28	1-162-974-11	CERAMIC CHIP	0.01UF		50V	C93	1-126-964-11	ELECT	10UF	20%	50V
C29		CERAMIC CHIP	0.1UF		25V	C94	1-164-346-11	CERAMIC CHIP	1UF		16V
C30	1-162-974-11	CERAMIC CHIP	0.01UF		50V						
C31	1-126-947-11	ELECT	47UF	20%	16V	C95	1-162-970-11	CERAMIC CHIP	0.01UF	10%	16V
						C96	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C33	1-164-156-11	CERAMIC CHIP	0.1UF		25V	C97	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C34		CERAMIC CHIP	0.01UF		50V	C98	1-126-960-11		1UF	20%	50V
C35	1-126-947-11		47UF	20%	16V	C99		CERAMIC CHIP	0.047UF	10%	16V
C36	1-126-934-11	ELECT	220UF	20%	10V						
C37	1-162-974-11	CERAMIC CHIP	0.01UF		50V	C101	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
						C102	1-126-964-11		10UF	20%	50V
C38	1-162-974-11	CERAMIC CHIP	0.01UF		50V	C103	1-126-964-11		10UF	20%	50V
C39		CERAMIC CHIP	0.1UF		25V	C104		CERAMIC CHIP	0.1UF		25V
C40		CERAMIC CHIP	0.01UF		50V	C105		CERAMIC CHIP	0.1UF		25V
C41	1-126-934-11		220UF	20%	10V						
C42		CERAMIC CHIP	0.01UF		50V	C106	1-126-933-11	ELECT	100UF	20%	16V
						C108		CERAMIC CHIP	15PF	5%	50V
C43	1-164-156-11	CERAMIC CHIP	0.1UF		25V	C109		CERAMIC CHIP	15PF	5%	50V
					'						



REF. NO.	PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTION			REMARK
C110 C111		CERAMIC CHIP CERAMIC CHIP	0.1UF 0.1UF		25V 25V	C329 C330	1-162-970-11	CERAMIC CHIP CERAMIC CHIP	0.47UF 0.01UF	10% 10%	10V 16V
C110	1 164 156 11	CED A MIC CHID	0.1115		2517	C331		CERAMIC CHIP	0.1UF	200/	25V
C112 C113		CERAMIC CHIP CERAMIC CHIP	0.1UF		25V 25V	C332 C333	1-126-964-11		10UF 0.47UF	20%	50V 10V
C115		CERAMIC CHIP	0.1UF 15PF	5%	50V	CSSS	1-123-691-11	CERAMIC CHIP	0.4/UF	10%	10 V
C115		CERAMIC CHIP	15PF	5%	50V	C334	1_125_801_11	CERAMIC CHIP	0.47UF	10%	10V
C110	1-126-933-11		100UF	20%	16V	C335	1-126-933-11		100UF	20%	16V
0117	1 120 733 11	ELLECT	10001	2070	101	C336		CERAMIC CHIP	0.47UF	10%	10V
C120	1-126-933-11	ELECT	100UF	20%	16V	C337		CERAMIC CHIP	0.1UF	10%	16V
C123	1-162-966-11	CERAMIC CHIP	0.0022UF	10%	50V	C338	1-126-963-11	ELECT	4.7UF	20%	50V
C124	1-164-346-11	CERAMIC CHIP	1UF		16V						
C125		CERAMIC CHIP	0.1UF		25V	C339		CERAMIC CHIP	0.1UF	10%	16V
C128	1-162-960-11	CERAMIC CHIP	220PF	10%	50V	C340		CERAMIC CHIP	0.1UF	10%	16V
G120		CED 11 MG CHID	0.04577	100/	4.07.7	C341		CERAMIC CHIP	0.0047UF	10%	50V
C129		CERAMIC CHIP	0.047UF	10%	16V	C342		CERAMIC CHIP	0.01UF	10%	25V
C130 C131	1-162-970-11	CERAMIC CHIP	0.01UF 2.2UF	10% 20%	16V 50V	C343	1-126-963-11	ELECT	4.7UF	20%	50V
C131	1-126-935-11		470UF	20%	16V	C344	1-107-826-11	CERAMIC CHIP	0.1UF	10%	16V
C132	1-126-964-11		10UF	20%	50V	C345		CERAMIC CHIP	0.1UF	10%	16V
0155	1 120 701 11	EEECT	1001	2070	501	C346		CERAMIC CHIP	0.47UF	10%	10V
C134	1-164-156-11	CERAMIC CHIP	0.1UF		25V	C347	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C135	1-126-964-11	ELECT	10UF	20%	50V	C348	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C136	1-164-156-11	CERAMIC CHIP	0.1UF		25V						
C137	1-126-964-11	ELECT	10UF	20%	50V	C349		CERAMIC CHIP	0.47UF	10%	10V
C138	1-126-964-11	ELECT	10UF	20%	50V	C350	1-126-935-11		470UF	20%	16V
						C351		CERAMIC CHIP	0.1UF		25V
C139	1-126-964-11		10UF	20%	50V	C352		CERAMIC CHIP	0.47UF	10%	10V
C140 C141	1-126-933-11 1-126-933-11		100UF 100UF	20% 20%	16V 16V	C353	1-10/-826-11	CERAMIC CHIP	0.1UF	10%	16V
C141 C142		CERAMIC CHIP	0.1UF	20%	25V	C354	1-126-963-11	EI ECT	4.7UF	20%	50V
C142 C143		CERAMIC CHIP	0.1UF		25 V 25 V	C355		CERAMIC CHIP	0.1UF	10%	16V
0115	1 101 150 11	CLIU IIIIC CIIII	0.101		23 1	C356		CERAMIC CHIP	0.1UF	10%	16V
C144	1-126-964-11	ELECT	10UF	20%	50V	C357		CERAMIC CHIP	0.01UF	10%	25V
C145	1-162-970-11	CERAMIC CHIP	0.01UF	10%	16V	C358	1-162-917-11	CERAMIC CHIP	15PF	5%	50V
C301	1-162-970-11	CERAMIC CHIP	0.01UF	10%	16V						
C302		CERAMIC CHIP	1UF	10%		C359		CERAMIC CHIP	0.47UF	10%	10V
C303	1-107-826-11	CERAMIC CHIP	0.1UF	10%	16V	C360		CERAMIC CHIP	15PF	5%	50V
G20.4	1 164 215 11	CED A MIC CHID	470DE	50/	5017	C361		CERAMIC CHIP	0.47UF	10%	10V
C304		CERAMIC CHIP CERAMIC CHIP	470PF 15PF	5% 5%	50V 50V	C362 C363		CERAMIC CHIP	0.1UF 100UF	20%	25V 16V
C305 C306		CERAMIC CHIP	0.1UF	10%	16V	C303	1-126-933-11	ELECT	100UF	20%	10 V
C307		CERAMIC CHIP	0.1UF	1070	25V	C364	1-126-933-11	ELECT	100UF	20%	16V
C308		CERAMIC CHIP	0.47UF	10%	10V	C365	1-126-933-11		100UF	20%	16V
						C366	1-125-837-91	CERAMIC CHIP	1UF	10%	6.3V
C309	1-126-933-11	ELECT	100UF	20%	16V	C367	1-125-837-91	CERAMIC CHIP	1UF	10%	6.3V
C310	1-126-964-11		10UF	20%	50V	C368	1-107-826-11	CERAMIC CHIP	0.1UF	10%	16V
C311	1-126-933-11		100UF	20%	16V	G2 40		DI DOM	10077	2001	4 - 7 7
C312		CERAMIC CHIP	0.1UF		25V	C369	1-126-933-11		100UF	20%	16V
C313	1-104-130-11	CERAMIC CHIP	0.1UF		25V	C370 C371	1-126-933-11 1-126-933-11		100UF 100UF	20% 20%	16V 16V
C314	1-107-826-11	CERAMIC CHIP	0.1UF	10%	16V	C371	1-126-933-11		100UF 100UF	20%	16V 16V
C315		CERAMIC CHIP	0.1UF	10%	16V	C372		CERAMIC CHIP	0.1UF	2070	25V
C316		CERAMIC CHIP	0.001UF	10%	50V						
C317		CERAMIC CHIP	0.1UF	10%	16V	C374	1-126-933-11	ELECT	100UF	20%	16V
C318	1-164-156-11	CERAMIC CHIP	0.1UF		25V	C375		CERAMIC CHIP	0.1UF		25V
						C376		CERAMIC CHIP	0.47UF	10%	10V
C319		CERAMIC CHIP	0.47UF	10%	10V	C377		CERAMIC CHIP	0.1UF		25V
C320	1-126-963-11		4.7UF	20%	50V	C378	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C321		CERAMIC CHIP	0.1UF	200/	25V	C270	1 164 156 11	CED AMIC CITIE	0.11177		2517
C322 C323	1-126-933-11	CERAMIC CHIP	100UF 0.1UF	20%	16V 25V	C379 C380		CERAMIC CHIP CERAMIC CHIP	0.1UF 0.001UF	10%	25V 50V
C343	1-10-130-11	CLIMINIC CHIF	0.101		2J ¥	C381		CERAMIC CHIP	0.0010F 0.1UF	10%	16V
C324	1-125-837-91	CERAMIC CHIP	1UF	10%	6.3V	C382		CERAMIC CHIP	0.47UF	10%	10V
C325		CERAMIC CHIP	0.1UF	10%	16V	C383		CERAMIC CHIP	0.47UF	10%	10V
C326	1-164-315-11	CERAMIC CHIP	470PF	5%	50V						
C327		CERAMIC CHIP	15PF	5%	50V	C384		CERAMIC CHIP	0.1UF		25V
C328	1-107-826-11	CERAMIC CHIP	0.1UF	10%	16V	C385	1-162-968-11	CERAMIC CHIP	0.0047UF	10%	50V



REF. NO.	PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTION			REMARK
C386		CERAMIC CHIP	0.1UF		25V	C470	1-162-970-11	CERAMIC CHIP	0.01UF	10%	16V
C387	1-126-964-11		10UF	20%	50V	G 472	1 107 001 11	CED 11 HC CHID	0.457.75	100/	1077
C388	1-125-891-11	CERAMIC CHIP	0.47UF	10%	10V	C472		CERAMIC CHIP	0.47UF	10%	10V
G200	4 407 004 44	arr i i a a airr	0.45775	100/	4077	C476		CERAMIC CHIP	0.1UF	100/	25V
C389		CERAMIC CHIP	0.47UF	10%	10V	C477		CERAMIC CHIP	4.7UF	10%	6.3V
C390	1-126-964-11		10UF	20%	50V	C478	1-216-864-11		0	.	
C391		CERAMIC CHIP	0.1UF		25V	C479	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C392		CERAMIC CHIP	0.47UF	10%	10V						
C393	1-125-891-11	CERAMIC CHIP	0.47UF	10%	10V	C480		CERAMIC CHIP	0.1UF	10%	16V
						C481		CERAMIC CHIP	0.1UF	10%	16V
C394	1-126-933-11		100UF	20%	16V	C482		CERAMIC CHIP	0.1UF	10%	16V
C395		CERAMIC CHIP	0.47UF	10%	10V	C483		CERAMIC CHIP	0.0047UF	10%	50V
C396		CERAMIC CHIP	0.47UF	10%	10V	C484	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C397		CERAMIC CHIP	0.47UF	10%	10V						
C398	1-164-156-11	CERAMIC CHIP	0.1UF		25V	C485		CERAMIC CHIP	0.47UF	10%	10V
						C486		CERAMIC CHIP	0.22UF	10%	10V
C399		CERAMIC CHIP	15PF	5%	50V	C488	1-126-933-11		100UF	20%	16V
C400	1-126-933-11		100UF	20%	16V	C489		CERAMIC CHIP	0.47UF	10%	10V
C401		CERAMIC CHIP	15PF	5%	50V	C490	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C402		CERAMIC CHIP	0.1UF		25V						
C403	1-126-947-11	ELECT	47UF	20%	16V	C494	1-126-933-11	ELECT	100UF	20%	16V
						C495		CERAMIC CHIP	0.1UF		25V
C404	1-164-156-11	CERAMIC CHIP	0.1UF		25V	C497	1-126-933-11	ELECT	100UF	20%	16V
C405	1-164-156-11	CERAMIC CHIP	0.1UF		25V	C498	1-107-826-11	CERAMIC CHIP	0.1UF	10%	16V
C406	1-127-760-11	CERAMIC CHIP	4.7UF	10%	6.3V	C500	1-164-816-11	CERAMIC CHIP	220PF	2%	50V
C407	1-127-760-11	CERAMIC CHIP	4.7UF	10%	6.3V						
C408	1-127-760-11	CERAMIC CHIP	4.7UF	10%	6.3V	C501	1-162-974-11	CERAMIC CHIP	0.01UF		50V
						C502	1-164-816-11	CERAMIC CHIP	220PF	2%	50V
C410	1-126-933-11	ELECT	100UF	20%	16V	C503	1-164-816-11	CERAMIC CHIP	220PF	2%	50V
C411	1-107-826-11	CERAMIC CHIP	0.1UF	10%	16V	C504	1-115-416-11	CERAMIC CHIP	0.001UF	5%	25V
C412	1-125-837-91	CERAMIC CHIP	1UF	10%	6.3V	C505	1-162-964-11	CERAMIC CHIP	0.001UF	10%	50V
C413	1-164-156-11	CERAMIC CHIP	0.1UF		25V						
C414	1-162-970-11	CERAMIC CHIP	0.01UF	10%	16V	C506	1-164-816-11	CERAMIC CHIP	220PF	2%	50V
						C507	1-162-966-11	CERAMIC CHIP	0.0022UF	10%	50V
C415	1-125-837-91	CERAMIC CHIP	1UF	10%	6.3V	C701	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C416	1-164-156-11	CERAMIC CHIP	0.1UF		25V	C702	1-126-964-11	ELECT	10UF	20%	50V
C417	1-126-933-11	ELECT	100UF	20%	16V	C703		CERAMIC CHIP	0.1UF		25V
C418		CERAMIC CHIP	0.1UF	10%	16V						
C419	1-126-933-11		100UF	20%	16V	C704	1-126-947-11	ELECT	47UF	20%	25V
						C705		CERAMIC CHIP	0.1UF		25V
C420	1-164-156-11	CERAMIC CHIP	0.1UF		25V	C706		CERAMIC CHIP	0.1UF		25V
C421		CERAMIC CHIP	0.001UF	10%	50V	C707		CERAMIC CHIP	0.1UF		25V
C422		CERAMIC CHIP	0.1UF	1070	25V	C708	1-104-665-11		100UF	20%	10V
C426		CERAMIC CHIP	0.1UF		25 V	0,00	1 10 1 005 11	ELLECT	10001	2070	10 1
C430		CERAMIC CHIP	0.1UF		25 V	C709	1-162-920-11	CERAMIC CHIP	27PF	5%	50V
C+30	1 104 150 11	CLICITIVII C CITII	0.101		23 1	C710		CERAMIC CHIP	22PF	5%	50V
C431	1-107-826-11	CERAMIC CHIP	0.1UF	10%	16V	C710		CERAMIC CHIP	15PF	5%	50V
C435	1-126-933-11		100UF	20%	16V	C713		CERAMIC CHIP	15PF	5%	50V
C438	1-126-933-11		100UF	20%	16V	C714		CERAMIC CHIP	0.001UF	10%	50V
C438		CERAMIC CHIP	0.1UF	2070	25V	C/19	1-102-904-11	CERAINIC CIII	0.00101	1070	30 V
C440		CERAMIC CHIP	0.1UF		25 V	C722	1 107 826 11	CERAMIC CHIP	0.1UF	10%	16V
C++0	1-104-130-11	CLICAIVIIC CIIII	0.101		23 🔻	C728	1-126-933-11		100UF	20%	16V
C442	1 125 924 01	CERAMIC CHIP	2.2E+06PF	16 2W		C728		CERAMIC CHIP	100CF 10PF		PF50V
C442 C443	1-126-933-11		2.2E+00F1 100UF	20%	16V	C730		CERAMIC CHIP	100PF	5%	50V
C443											
		CERAMIC CHIP	0.068UF	10%	16V	C732	1-102-927-11	CERAMIC CHIP	100PF	5%	50V
C449		CERAMIC CHIP	1UF	10%		C722	1 115 416 11	CED AMIC CHID	0.00111E	F0/	2537
C455	1-130-495-00	WIILAK	0.1UF	5%	50V	C733		CERAMIC CHIP	0.001UF	5%	25V
0457	1 107 926 11	CED AMIC CITIE	0.1117	100/	1637	C735	1-126-933-11		100UF	20%	16V
C457		CERAMIC CHIP	0.1UF	10%	16V	C736		CERAMIC CHIP	0.1UF		25V
C458	1-136-244-11		0.1UF	5%	50V	C737		CERAMIC CHIP	0.1UF	2007	25V
C460		CERAMIC CHIP	0.1UF	10%	16V	C738	1-126-933-11	ELECT	100UF	20%	16V
C461		CERAMIC CHIP	0.1UF	10%	16V	C720	1 126 050 11	ELECT	0.47115	200/	501/
C463	1-107-826-11	CERAMIC CHIP	0.1UF	10%	16V	C739	1-126-959-11		0.47UF	20%	50V
G 1 - :	1 10= 0= : : :	OED 13 770	0.1777	100	1677	C740	1-126-963-11		4.7UF	20%	50V
C464		CERAMIC CHIP	0.1UF	10%	16V	C741	1-126-963-11		4.7UF	20%	50V
C466		CERAMIC CHIP	47PF	5%	50V	C742		CERAMIC CHIP	0.1UF		25V
C467		CERAMIC CHIP	0.1UF	10%	16V	C745	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C468	1-125-891-11	CERAMIC CHIP	0.47UF	10%	10V						



Ī	REF. NO.	PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTION		REMARK
	C746 C747	1-126-947-11 1-126-947-11		47UF 47UF	20% 20%	25V 25V	CN7 CN8		PLUG, CONNECTO TAB (CONTACT)	OR 5P	
	C749	1-126-947-11		47UF	20%	25 V	CN9		PLUG, CONNECT	OR 6P	
	C750	1-164-156-11	CERAMIC CHIP	0.1UF		25V	CN10		PLUG, CONNECT		
	C751	1-126-943-11	ELECT	2200UF	20%	25V					
							CN11		CONNECTOR, BO		
	C752	1-126-943-11		2200UF	20%	25V	CN12		CONNECTOR, BO		
	C754		CERAMIC CHIP	0.01UF	10%	16V			CONNECTOR, DI		
	C755 C756	1-126-947-11 1-126-964-11		47UF 10UF	20% 20%	25V 50V	CN14 CN15		CONNECTOR, BO TAB (CONTACT)	DAKD TO BOAKL) 10P
	C757	1-120-904-11		0.1UF	5%	50V	CNIS	1-093-913-11	IAB (CONTACT)		
	0131	1 130 173 00	WITE/III	0.101	570	501	CN16	* 1-564-506-11	PLUG, CONNECT	OR 3P	
	C758	1-126-947-11	ELECT	47UF	20%	25V			PLUG, CONNECT		
	C759	1-107-826-11	CERAMIC CHIP	0.1UF	10%	16V			PLUG, CONNECT		
	C760	1-126-933-11		100UF	20%	16V			PLUG, CONNECT		
	C761		CERAMIC CHIP	0.1UF	10%	16V	CN701	* 1-564-507-11	PLUG, CONNECT	OR 4P	
	C762	1-104-665-11	ELECT	100UF	20%	25V	CN702	* 1 564 500 11	PLUG, CONNECT	YOD 6D	
	C764	1-130-495-00	MYI AR	0.1UF	5%	50V			PLUG, CONNECTO		
	C765	1-126-933-11		100UF	20%	16V			PLUG, CONNECT		
	C766	1-164-156-11	CERAMIC CHIP	0.1UF		25V			PLUG, CONNECT		
	C768	1-164-218-11	CERAMIC CHIP	180PF	5%	50V	CN706	* 1-564-507-11	PLUG, CONNECT	OR 4P	
	C769	1-164-156-11	CERAMIC CHIP	0.1UF		25V					
	C==0		arr in the arm	12000					< DIODE >		
	C770 C771	1-162-928-11	CERAMIC CHIP	120PF 0.1UF	5%	50V 50V	D1	9 710 404 50	MAIII TV		
	C771	1-130-495-00		0.1UF 0.1UF	5% 5%	50V 50V	D1 D5	8-719-404-50 8-719-083-87	UDZS-TE17-33B		
	C773		CERAMIC CHIP	0.033UF	10%	16V	D7		UDZSTE-175.6B		
	C775		CERAMIC CHIP	0.0033UF		16V	D307		DTZ-TT11-6.8B		
							D312	8-719-069-55	UDZSTE-175.6B		
	C777		CERAMIC CHIP	0.1UF		25V					
	C778		CERAMIC CHIP	0.1UF	2001	25V	D317	8-719-404-50			
	C779 C780	1-126-933-11		100UF	20%	16V 25V	D318	8-719-404-50			
	C781	1-104-665-11	CERAMIC CHIP	100UF 0.1UF	20%	25 V 25 V	D319 D321	8-719-404-50 8-719-404-50			
	C701	1 104 150 11	CERCINIC CITI	0.101		23 1	D701	8-719-941-86			
	C782	1-130-489-00	MYLAR	0.033UF	5%	50V					
	C783	1-137-364-11	MYLAR	0.001UF	5%	50V	D702	8-719-404-50			
	C784		CERAMIC CHIP	0.47UF	10%	10V	D703		DIODE UDZSTE-1	173.6B	
	C785	1-126-963-11		4.7UF	20%	50V	D704	8-719-941-86			
	C786	1-126-963-11	ELECI	4.7UF	20%	50V	D705 D706		UDZS-TE17-33B UDZS-TE17-33B		
	C787	1-126-960-11	ELECT	1UF	20%	50V	D700	0-717-003-07	ODZ5-1L17-33B		
	C788		CERAMIC CHIP	0.047UF	10%	16V	D708	8-719-404-50	MA111-TX		
	C789	1-126-964-11	ELECT	10UF	20%	50V	D709	8-719-404-50	MA111-TX		
	C790		CERAMIC CHIP	0.033UF	10%	16V	D710	8-719-941-86			
	C791	1-162-967-11	CERAMIC CHIP	0.0033UF	10%	16V	D711	8-719-941-86			
	C792	1-130-489-00	MVI AD	0.033UF	50/	501/	D712	8-719-941-86	DAN202U		
	C792 C793	1-130-489-00		0.033UF 0.001UF	5% 5%	50V 50V	D713	8-719-941-86	DAN202U		
	C795	1-126-963-11		4.7UF	20%	50V	D713	8-719-404-50			
	C796	1-126-933-11		100UF	20%	16V	D719	8-719-404-50			
	C797	1-107-826-11	CERAMIC CHIP	0.1UF	10%	16V	D720	8-719-920-67	ERC91-02		
							D721	8-719-920-67	ERC91-02		
	C799		CERAMIC CHIP	0.1UF	100/	25V	D702	9 710 002 05	LIDZC TE17 00P		
	C800 C801		CERAMIC CHIP CERAMIC CHIP	0.01UF 0.1UF	10% 10%	16V 16V	D723 D724		UDZS-TE17-22B UDZS-TE17-22B		
	C802	1-107-820-11		470UF	20%	16V 16V	D724 D725		UDZS-TE17-22B		
	0002	1 120 700 11	ZZZC1	.,,,,,	2070	10 .	D726		UDZS-TE17-22B		
			< CONNECTOR >				D729	8-719-404-50	MA111-TX		
	CN1 *	1-779-892-11	CONNECTOR, BO	ARD TO B	OARD	10P	D730	8-719-069-33	DTZ-TT11-6.8B		
			CONNECTOR, BO			I					
			CONNECTOR, BO		OARD	10P			< FERRITE BEAD)>	
			PLUG, CONNECT		0100	110	ED 1	1 414 445 11	EEDDITE	OTH	
	CN5	1-3/3-9/9-21	CONNECTOR, BO	AKD IUB	UAKL	1117	FB1 FB2	1-414-445-11 1-414-445-11		0UH 0UH	
	CN6 *	1-793-922-11	CONNECTOR, DI	N (RECEPT	ACLE)64P	FB2 FB3	1-414-445-11		OUH OUH	
				,· 1		,	- 20	115 11			

Les composants identifies par une trame et une marque \(\triangle \) sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The components identified by shading and mark $\hat{\bot}$ are critical for safety. Replace only with part number specified.



REF. NO.	PART NO.	DESCRIPTION		REMARK	REF. NO.	PART NO.	DESCRIPTION		REMARK
FB4	1-414-445-11	FERRITE	0UH		L8	1-414-856-11	INDUCTOR	10UH	
FB5	1-216-864-11	SHORT	0		L9	1-414-856-11		10UH	
TD (0.7.77		L10	1-412-537-31	INDUCTOR	100UH	
FB6 FB301	1-414-445-11 1-414-760-21		0UH 0UH		L11	1-414-856-11	INDLICTOR	10UH	
FB301	1-414-700-21	TERRITE	OOH		L11	1-414-856-11		10UH	
		< FILTER >			L13	1-414-856-11		10UH	
					L301	1-469-555-21		10UH	
FL3	1-233-512-21		37UH		L302	1-469-555-21	INDUCTOR	10UH	
FL4 FL5		FILTER, LOW PAS			L303	1-469-555-21	INDLICTOR	10UH	
FL6		FILTER, LOW PAS			L303	1-469-555-21		10UH	
FL7		FILTER, LOW PAS			L305	1-469-555-21		10UH	
					L306	1-414-193-41		220UH	
		< IC >			L307	1-469-555-21	INDUCTOR	10UH	
IC1	8-759-445-59	BA033T			L308	1-414-856-11	INDUCTOR	10UH	
IC2	8-759-198-03				L309	1-469-555-21		10UH	
IC3		IC NJM2068V-TE2			L310	1-469-555-21		10UH	
IC4	8-759-568-27	MSM514265C-60JS	S		L311	1-469-555-21		10UH	
IC5	8-759-100-96	UPC4558G2			L312	1-469-555-21	INDUCTOR	10UH	
IC6	9 750 504 44	UPD64082GF-3BA			I 212	1-414-856-11	INDLICTOR	101111	
IC6 IC7	8-759-100-96				L313 L314	1-414-836-11		10UH 10UH	
IC8	8-759-445-59				L315	1-469-555-21		10UH	
IC9	8-759-231-58				L316	1-414-856-11		10UH	
IC10	8-759-100-96	UPC4558G2			L317	1-414-856-11	INDUCTOR	10UH	
TC11	0.750.100.06	I IDG4550G2			T 221	1 414 056 11	DIDLICTOR	101111	
IC11 IC12	8-759-100-96 8 750 833 12	IC NJM2395AF05			L321 L701	1-414-856-11 1-414-179-21		10UH 2.2UH	
IC301	8-752-089-50				L701 L702	1-412-911-11		0UH	
IC302		CXP85840A-039Q			L704	1-469-555-21		10UH	
IC303	8-752-089-50				L705	1-469-555-21		10UH	
TG20.4	0.772.016.10	GTTD050404 0000					\		
IC304 IC305		CXP85840A-039Q SN74LV4053ANSR	,				< NEON LAMP >		
IC306	8-752-093-84				NL701	1-517-778-21	LAMP, NEON		
IC307		SN74LV4053ANSF	1		NL702		LAMP, NEON		
IC308	8-752-395-13	CXD2085M-T4			NL703		LAMP, NEON		
10200	0.752.100.25	GW 4 24 50 4 O					ICIDII		
IC309 IC310	8-752-100-25 8-759-349-11						< IC LINK >		
IC310	8-759-700-07				PS1 🗥	1-532-679-00	LINK IC		
IC312	8-759-082-58				PS2 🗘	1-532-685-00	LINK, IC		
IC701	8-759-349-11	PST9145NL			PS3 🛕	1-532-679-00	LINK, IC		
	0.550.555.51	10.10.100.1 117.01	(TP			1-576-336-21			
IC702 IC703		IC M24C04-WMN6 IC M24C08-MN6T			PS / 02 /!\	1-576-336-21	LINK, IC		
IC703		IC M306V2ME-175	` '				<transistor></transistor>		
IC705		CXA1726AM					111111111111111111111111111111111111111		
IC706	8-752-068-37	CXA1726AM			Q1		2SA1037AK-T146-		
					Q2		2SA1037AK-T146-	R	
IC707	8-759-100-96				Q3	8-729-422-27		D	
IC708 IC709	8-759-190-89 8-759-830-08	IC NJM2068V-TE2			Q4 Q5	8-729-026-49 8-729-422-27	2SA1037AK-T146-	·K	
IC710		IC NJM2068V-TE2			QJ	0-12)-422-21	25D001A-Q		
IC711		BH3868BFS-E2			Q6	8-729-422-27	2SD601A-Q		
					Q7		2SA1037AK-T146-		
		<coil></coil>			Q8		2SA1037AK-T146-	·R	
L1	1-414-181-11	INDUCTOR	4.7UH		Q11 Q12	8-729-422-27 8-729-026-49	2SD601A-Q 2SA1037AK-T146-	.R	
L1 L2	1-414-181-11		10UH		Q12	0-147-040-49	23/103/AK-1140-	13	
L3	1-412-058-11		10UH		Q13	8-729-026-49	2SA1037AK-T146-	·R	
L4	1-412-058-11		10UH		Q14	8-729-422-27			
L5	1-414-193-41	INDUCTOR	220UH		Q15		2SA1037AK-T146-		
1.6	1 410 050 11	INDLICTOR	101111		Q16		2SA1037AK-T146-	·R	
L6 L7	1-412-058-11 1-414-856-11		10UH 10UH		Q17	8-729-422-27	25D001A-Q		
L /	1-11-020-11	HIDOCION	10011	I					



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION			REMARK
019	9 720 422 27	25D6014 O		0247	9 720 122 62	25 4 1226			
Q18	8-729-422-27			Q347	8-729-122-63		D		
Q19	8-729-422-27			Q348		2SA1037AK-T146-	·K		
Q20	8-729-422-27			Q349	8-729-422-27	28D001A-Q			
Q21		2SA1037AK-T146-R		0250	9 700 400 07	2CD601 A O			
Q22	8-729-422-27	2SD001A-Q		Q350	8-729-422-27				
022	9 720 422 27	25D(01A O		Q351	8-729-122-63				
Q23	8-729-422-27			Q352	8-729-422-27		D		
Q24	8-729-422-27			Q353		2SA1037AK-T146- 2SA1037AK-T146-			
Q25	8-729-422-27	_		Q354	8-729-020-49	25A105/AK-1140-	·K		
Q26 Q27	8-729-422-27			0255	9 700 400 07	2CD601 A O			
Q27	8-729-422-27	23D001A-Q		Q355 Q356	8-729-422-27	2SA1037AK-T146-	D		
Q28	9 720 026 40	2SA1037AK-T146-R		Q350 Q357		2SA1037AK-T146-			
Q28 Q301	8-729-422-27			Q357 Q358		2SA1037AK-T146-			
Q301 Q302	8-729-422-27			Q356 Q361	8-729-422-27		·IX		
Q302 Q303		2SA1037AK-T146-R		Q301	0-129-422-21	25D001A-Q			
Q303 Q304	8-729-422-27			Q363	8-729-422-27	2SD601 A O			
Q304	0-129-422-21	23D001A-Q		Q363 Q367	8-729-122-63				
Q305	8-729-422-27	2SD601A O		Q368	8-729-422-27				
Q305 Q306	8-729-422-27	-		Q369		TR DTC144EKA			
Q307	8-729-422-27			Q307 Q373	8-729-422-27				
Q308		2SA1037AK-T146-R		Q373	0 12) 422 21	25D00111 Q			
Q309	8-729-422-27			Q374	8-729-422-27	2SD601 A-O			
Q307	0-12)- 4 22-21	25D001A-Q		Q374 Q378	8-729-422-27				
Q310	8-729-422-27	2SD601A-O		Q379		2SA1037AK-T146-	.R		
Q310 Q311	8-729-422-27	-		Q379 Q380	8-729-422-27		·IX		
Q311 Q312		2SA1037AK-T146-R		Q380 Q381	8-729-422-27				
Q312 Q313	8-729-422-27			Q301	0 12) 422 21	25D00111 Q			
Q314	8-729-422-27			Q701	8-729-422-27	2SD601A-O			
Q314	0 12) 422 21	25000171 Q		Q701 Q702		2SA1037AK-T146-	.R		
Q315	8-729-422-27	2SD601A-O		Q703	8-729-422-27				
Q316	8-729-422-27			Q703		2SA1037AK-T146-	·R		
Q317	8-729-422-27			Q705	8-729-422-27				
Q318	8-729-422-27			Q, 00	0 727 122 27	20200111 Q			
Q319	8-729-422-27			Q706	8-729-026-49	2SA1037AK-T146-	·R		
(Q707		TR DTC144EKA			
Q320	8-729-422-27	2SD601A-O		Q708	8-729-422-27				
Q321	8-729-422-27			Q709	8-729-422-27				
Q322	8-729-422-27			Q710	8-729-422-27				
Q323	8-729-422-27	-							
Q324	8-729-422-27			Q712	8-729-026-49	2SA1037AK-T146-	·R		
				Q713		2SA1037AK-T146-			
Q325	8-729-026-49	2SA1037AK-T146-R		Q714	8-729-027-38	DTA144EKA-T146)		
Q326		2SA1037AK-T146-R		Q715	8-729-422-27	2SD601A-Q			
Q327		2SA1037AK-T146-R		Q716	8-729-422-27				
Q328	8-729-026-49	2SA1037AK-T146-R		-					
Q329	8-729-026-49	2SA1037AK-T146-R		Q717	8-729-422-27	2SD601A-Q			
				Q718	8-729-422-27	2SD601A-Q			
Q330	8-729-026-49	2SA1037AK-T146-R		Q721	8-729-026-49	2SA1037AK-T146-	·R		
Q331	8-729-026-49	2SA1037AK-T146-R		Q722	8-729-422-27	2SD601A-Q			
Q332	8-729-026-49	2SA1037AK-T146-R		Q723	8-729-422-27	2SD601A-Q			
Q333	8-729-026-49	2SA1037AK-T146-R							
Q334	8-729-026-49	2SA1037AK-T146-R		Q724	8-729-422-27				
				Q725	8-729-026-49	2SA1037AK-T146-	·R		
Q335	8-729-422-27	-		Q726	8-729-026-49	2SA1037AK-T146-	·R		
Q336	8-729-422-27	-							
Q337	8-729-422-27					< RESISTOR $>$			
Q338	8-729-422-27	-							
Q339	8-729-422-27	2SD601A-Q		R1		METAL OXIDE	18K	5%	2W
				R2	1-216-813-11		220	5%	1/16W
Q340	8-729-422-27	-		R3	1-216-813-11		220	5%	1/16W
Q341	8-729-422-27			R4	1-216-813-11		220	5%	1/16W
Q342	8-729-422-27			R5	1-216-813-11	RES-CHIP	220	5%	1/16W
Q343	8-729-122-63					DD0	226		4 /4
Q344	8-729-026-49	2SA1037AK-T146-R		R6	1-216-813-11		220	5%	1/16W
001-	0.500.00	20110271771157		R7	1-216-833-11		10K	5%	1/16W
Q345		2SA1037AK-T146-R		R8	1-216-813-11		220	5%	1/16W
Q346	8-729-422-27	2SD601A-Q		R9	1-216-813-11	RES-CHIP	220	5%	1/16W



REF. NO.	PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTION			REMARK
R10	1-216-829-11	DEC CHID	4.7K	5%	1/16W						
KIU	1-210-629-11	кез-спір	4./K	3%	1/10 W	R75	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R11	1-218-720-11	METAL CHIP	15K	0.5%	1/16W	R76	1-216-818-11		560	5%	1/16W
R12		METAL CHIP	18K	0.5%	1/16W	R77	1-216-821-11		1K	5%	1/16W
R13		METAL CHIP	100K	0.5%	1/16W	R78		METAL CHIP	560	0.5%	1/16W
R14	1-218-295-11	RES-CHIP	43K	5%	1/16W	R79	1-216-818-11	RES-CHIP	560	5%	1/16W
R15	1-216-821-11	RES-CHIP	1K	5%	1/16W						
						R80	1-218-686-11	METAL CHIP	560	0.5%	1/16W
R16	1-218-702-11	METAL CHIP	2.7K	0.5%	1/16W	R81	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R17	1-218-706-11	METAL CHIP	3.9K	0.5%	1/16W	R82	1-216-821-11	RES-CHIP	1K	5%	1/16W
R18		METAL CHIP	8.2K	0.5%	1/16W	R85	1-216-830-11		5.6K	5%	1/16W
R19	1-216-817-11		470	5%	1/16W	R87	1-216-833-11	RES-CHIP	10K	5%	1/16W
R20	1-216-827-11	RES-CHIP	3.3K	5%	1/16W						
D21	1 21 6 020 11	DEG GIHD	2217	50/	1 /1 (177	R88	1-216-830-11		5.6K	5%	1/16W
R21	1-216-839-11		33K	5%	1/16W	R89	1-216-813-11		220	5%	1/16W
R22	1-216-817-11		470	5%	1/16W	R90	1-216-864-11		0		
R23 R24	1-216-809-11 1-216-809-11		100 100	5% 5%	1/16W 1/16W	R91 R92	1-216-864-11		0 5.6V	5%	1/16W
R25	1-216-809-11		100	5%	1/16W 1/16W	K92	1-216-830-11	кез-спіг	5.6K	3%	1/10 W
K23	1-210-609-11	кез-спіг	100	370	1/10 W	R93	1-216-830-11	RES_CHIP	5.6K	5%	1/16W
R26	1-216-809-11	RES_CHIP	100	5%	1/16W	R95	1-216-818-11		560	5%	1/16W
R27		METAL CHIP	4.3K	0.5%	1/16W	R96	1-216-818-11		560	5%	1/16W
R29	1-216-864-11		0	0.570	1/10 **	R99	1-216-825-11		2.2K	5%	1/16W
R30	1-216-809-11		100	5%	1/16W	R100	1-216-833-11		10K	5%	1/16W
R31	1-216-809-11		100	5%	1/16W						
						R102	1-216-818-11	RES-CHIP	560	5%	1/16W
R32	1-216-864-11	SHORT	0			R103	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R33	1-216-809-11	RES-CHIP	100	5%	1/16W	R104	1-216-821-11	RES-CHIP	1K	5%	1/16W
R37	1-216-853-11	RES-CHIP	470K	5%	1/16W	R105	1-216-821-11	RES-CHIP	1K	5%	1/16W
R39	1-216-855-11	RES-CHIP	680K	5%	1/16W	R107	1-216-833-11	RES-CHIP	10K	5%	1/16W
R40	1-216-809-11	RES-CHIP	100	5%	1/16W						
						R108	1-216-818-11		560	5%	1/16W
R42	1-216-855-11		680K	5%	1/16W	R109	1-216-807-11		68	5%	1/16W
R43	1-216-853-11		470K	5%	1/16W	R110	1-216-809-11		100	5%	1/16W
R44	1-249-377-11	CARBON	0.47	5%	1/4W	R111	1-216-809-11		100	5%	1/16W
D.46	1 216 922 11	DEC CHID	1 017	50/	1/1633	R112	1-216-857-11	RES-CHIP	1M	5%	1/16W
R46	1-216-822-11		1.2K	5%	1/16W	D112	1 216 945 11	DEC CHID	100V	50/	1/1 /W /
R48	1-216-809-11	RES-CHIP	100	5%	1/16W	R113 R114	1-216-845-11 1-216-809-11		100K 100	5% 5%	1/16W 1/16W
R49	1-216-829-11	DEC CHID	4.7K	5%	1/16W	R114 R115	1-216-820-11		820	5%	1/16W 1/16W
R50	1-216-829-11		100	5%	1/16W	R116	1-216-825-11		2.2K	5%	1/16W
R51	1-216-833-11		10K	5%	1/16W	R117	1-216-821-11		1K	5%	1/16W
R52	1-216-833-11		10K	5%	1/16W	1117	1 210 021 11	res erm	111	570	1/1011
R53	1-216-817-11		470	5%	1/16W	R118	1-216-820-11	RES-CHIP	820	5%	1/16W
					-, - ,	R119	1-216-825-11		2.2K	5%	1/16W
R54	1-216-817-11	RES-CHIP	470	5%	1/16W	R120	1-216-834-11		12K	5%	1/16W
R55	1-216-822-11		1.2K	5%	1/16W	R121	1-216-839-11		33K	5%	1/16W
R56	1-216-805-11	RES-CHIP	47	5%	1/16W	R122	1-216-820-11		820	5%	1/16W
R57	1-216-805-11	RES-CHIP	47	5%	1/16W						
R59	1-216-821-11	RES-CHIP	1K	5%	1/16W	R123	1-216-833-11		10K	5%	1/16W
						R124	1-216-834-11		12K	5%	1/16W
R60	1-216-833-11		10K	5%	1/16W	R125	1-216-839-11		33K	5%	1/16W
R61	1-216-825-11		2.2K	5%	1/16W	R126	1-216-825-11		2.2K	5%	1/16W
R62	1-216-821-11		1K	5%	1/16W	R127	1-216-839-11	RES-CHIP	33K	5%	1/16W
R63	1-216-809-11		100	5%	1/16W	D120	1 216 021 11	DEG GIHD	177	50/	1 /1 (1)
R64	1-216-837-11	KES-CHIP	22K	5%	1/16W	R128	1-216-821-11		1K	5%	1/16W
D65	1-216-833-11	DEC CHID	10V	50/	1/16W	R129	1-216-805-11 1-216-821-11		47 116	5% 5%	1/16W
R65 R66	1-216-833-11		10K 220K	5% 5%	1/16W 1/16W	R130 R131	1-216-821-11		1K 22K	5% 5%	1/16W 1/16W
R67	1-216-849-11		47K	5% 5%	1/16W 1/16W	R133		METAL CHIP	560	0.5%	1/16W 1/16W
R68	1-216-841-11		33K	5%	1/16W 1/16W	KIJJ	1-210-000-11	METAL CHIE	300	U.J 70	1/10 88
R69	1-216-857-11		1M	5%	1/16W 1/16W	R134	1-218-683-11	METAL CHIP	430	0.5%	1/16W
1007	1 210-03/-11	ALD CIII	1111	5/0	1/10 **	R134	1-216-809-11		100	5%	1/16W 1/16W
R70	1-216-845-11	RES-CHIP	100K	5%	1/16W	R136	1-216-821-11		1K	5%	1/16W
R71	1-216-813-11		220	5%	1/16W	R137	1-216-833-11		10K	5%	1/16W
R72	1-216-821-11		1K	5%	1/16W	R138	1-216-833-11		10K	5%	1/16W
R73		METAL CHIP	560	0.5%	1/16W					-	
R74		METAL CHIP	470	0.5%	1/16W	R139	1-216-841-11	RES-CHIP	47K	5%	1/16W
					'						



REF. NO.	PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTION			REMARK
D140	1.016.000.11	DEG CHID	1077	50/	1/1/00/	D247	1.016.017.11	DEG CHID	470	50/	1/1/377
R140	1-216-833-11		10K	5%	1/16W	R347	1-216-817-11		470	5%	1/16W
R141	1-216-809-11		100	5%	1/16W	R348	1-216-841-11	RES-CHIP	47K	5%	1/16W
R142	1-216-843-11		68K	5%	1/16W	D240	1 21 6 012 11	DEG GIHD	220	50/	1/1/337
R143	1-216-829-11	RES-CHIP	4.7K	5%	1/16W	R349	1-216-813-11		220	5%	1/16W
D144	1 217 042 11	DEC CHID	COL	50/	1/1/337	R350	1-216-809-11		100	5%	1/16W
R144	1-216-843-11		68K	5%	1/16W	R351	1-216-813-11		220	5%	1/16W
R145	1-216-829-11		4.7K	5%	1/16W	R352	1-216-813-11		220	5%	1/16W
R146	1-218-295-11		43K	5%	1/16W	R353	1-216-809-11	RES-CHIP	100	5%	1/16W
R151	1-216-833-11		10K	5%	1/16W	D254	1 216 920 11	DEC CHID	4.717	50/	1/1/1
R152	1-216-833-11	RES-CHIP	10K	5%	1/16W	R354	1-216-829-11		4.7K	5%	1/16W
R153	1-216-833-11	DEC CHID	10K	5%	1/16W	R355 R356	1-216-809-11 1-216-841-11		100 47K	5% 5%	1/16W 1/16W
	1-216-830-11			5%						5%	1/16W
R154 R155	1-216-864-11		5.6K 0	370	1/16W	R357 R358	1-216-837-11 1-216-837-11		22K 22K	5%	1/16W
R301	1-216-809-11		100	5%	1/16W	K336	1-210-037-11	KL5-CIII	22 K	370	1/10 VV
R302	1-216-809-11		100	5%	1/16W	R359	1-216-837-11	DEC CHID	22K	5%	1/16W
K302	1-210-809-11	KES-CIII	100	370	1/10 W	R360	1-216-837-11		22K 22K	5%	1/16W
R303	1-216-833-11	RES_CHIP	10K	5%	1/16W	R361	1-216-837-11		22K 22K	5%	1/16W
R304	1-216-833-11		10K	5%	1/16W	R362	1-216-837-11		22K	5%	1/16W
R305	1-216-835-11		15K	5%	1/16W	R363	1-216-809-11		100	5%	1/16W
R306		METAL CHIP	1.5K	0.5%		1003	1 210 000 11	KLD CIIII	100	370	1/10**
R307		METAL CHIP	1.5K	0.5%		R364	1-216-809-11	RES_CHIP	100	5%	1/16W
1007	1 210 070 11	METAL CITI	1.51	0.570	1/10**	R365	1-216-809-11		100	5%	1/16W
R308	1-216-821-11	RES-CHIP	1K	5%	1/16W	R366	1-216-841-11		47K	5%	1/16W
R309	1-216-813-11		220	5%	1/16W	R367	1-216-821-11		1K	5%	1/16W
R310	1-216-857-11		1M	5%	1/16W	R368	1-216-821-11		1K	5%	1/16W
R311	1-216-840-11		39K	5%	1/16W	11000	1 210 021 11	TEES CITI		2,0	1,1011
R312	1-216-809-11		100	5%	1/16W	R369	1-216-821-11	RES-CHIP	1K	5%	1/16W
				- , -	-,	R370	1-216-825-11		2.2K	5%	1/16W
R313	1-216-833-11	RES-CHIP	10K	5%	1/16W	R371	1-216-825-11		2.2K	5%	1/16W
R314	1-216-833-11		10K	5%	1/16W	R372	1-216-825-11		2.2K	5%	1/16W
R315	1-216-829-11		4.7K	5%	1/16W	R373	1-216-809-11		100	5%	1/16W
R316	1-216-821-11		1K	5%	1/16W						
R317	1-216-821-11		1K	5%	1/16W	R374	1-216-815-11	RES-CHIP	330	5%	1/16W
						R375	1-216-815-11	RES-CHIP	330	5%	1/16W
R318	1-216-833-11	RES-CHIP	10K	5%	1/16W	R376	1-216-815-11	RES-CHIP	330	5%	1/16W
R319	1-216-864-11	SHORT	0			R377	1-216-837-11	RES-CHIP	22K	5%	1/16W
R320	1-216-833-11	RES-CHIP	10K	5%	1/16W	R378	1-216-837-11	RES-CHIP	22K	5%	1/16W
R321	1-216-821-11	RES-CHIP	1K	5%	1/16W						
R322	1-216-809-11	RES-CHIP	100	5%	1/16W	R379	1-216-837-11		22K	5%	1/16W
						R380	1-216-837-11		22K	5%	1/16W
R323	1-216-809-11	RES-CHIP	100	5%	1/16W	R381	1-216-837-11	RES-CHIP	22K	5%	1/16W
R324	1-216-809-11	RES-CHIP	100	5%	1/16W	R382	1-216-837-11	RES-CHIP	22K	5%	1/16W
R325	1-216-835-11		15K	5%	1/16W	R383	1-216-809-11	RES-CHIP	100	5%	1/16W
R326	1-216-864-11		0								
R327	1-216-817-11	RES-CHIP	470	5%	1/16W	R384	1-216-809-11	RES-CHIP	100	5%	1/16W
						R385	1-216-821-11		1K	5%	1/16W
R329	1-216-829-11		4.7K	5%	1/16W	R386	1-216-809-11		100	5%	1/16W
R330	1-216-828-11		3.9K	5%	1/16W	R387	1-216-845-11		100K	5%	1/16W
R331	1-216-833-11		10K	5%	1/16W	R388	1-216-837-11	RES-CHIP	22K	5%	1/16W
R332		METAL CHIP	2.2K	0.5%							
R333	1-216-809-11	RES-CHIP	100	5%	1/16W	R389	1-216-809-11		100	5%	1/16W
D004	1 21 5 000 11	DEG GIVE	100		4 /4	R390	1-216-809-11		100	5%	1/16W
R334	1-216-809-11		100	5%	1/16W	R391	1-216-809-11		100	5%	1/16W
R335	1-216-829-11		4.7K	5%	1/16W	R392	1-216-809-11		100	5%	1/16W
R336	1-216-809-11		100	5%	1/16W	R393	1-216-809-11	RES-CHIP	100	5%	1/16W
R337	1-216-823-11		1.5K	5%	1/16W	D20.4	1 217 000 11	DEC CHIE	100	F0'	1/1/17
R338	1-216-823-11	KES-CHIP	1.5K	5%	1/16W	R394	1-216-809-11		100	5%	1/16W
D220	1 216 200 11	DEC CIUD	100	50/	1/1/30	R395	1-216-821-11		1K	5%	1/16W
R339	1-216-809-11		100	5%	1/16W	R396	1-216-821-11		1K	5%	1/16W
R340	1-216-828-11		3.9K	5%	1/16W	R397	1-216-821-11		1K	5% 5%	1/16W
R341 R342	1-218-706-11	METAL CHIP	3.9K 47K	0.5% 5%	1/16W 1/16W	R398	1-216-845-11	кез-Спір	100K	5%	1/16W
R343	1-216-841-11		100	5%	1/16W 1/16W	R399	1-216-833-11	BES-CHID	10K	5%	1/16W
N343	1-210-009-11	KE9-CHIF	100	J70	1/10 W	R399 R400	1-216-833-11		10K 100K	5% 5%	1/16W 1/16W
R344	1-216-809-11	RES-CHIP	100	5%	1/16W	R400 R401	1-216-845-11		100K 100K	5%	1/16W
R345		METAL CHIP	1.5K	0.5%		R401 R402	1-216-845-11		100K	5%	1/16W
R346		METAL CHIP	1.5K	0.5%		R402 R403	1-216-845-11		100K	5%	1/16W
-10.0				5.570	_, _, _,	1 -1.00	10 0 10 11		-0011	2,0	



REF. NO.	PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTION			REMARK
R404	1-216-845-11	DEC CHID	100K	5%	1/16W	R463	1 219 716 11	METAL CHIP	10K	0.5%	1/16W
R404	1-216-845-11		100K 100K	5%	1/16W 1/16W	R464	1-216-710-11		100	5%	1/16W 1/16W
R406	1-216-864-11		0	570	1/10**	R468	1-216-809-11		100	5%	1/16W
R407	1-216-833-11		10K	5%	1/16W	11.00	1 210 005 11	TEES CITI	100	270	1/10//
R408	1-216-821-11		1K	5%	1/16W	R469	1-216-797-11	RES-CHIP	10	5%	1/16W
						R470	1-216-839-11	RES-CHIP	33K	5%	1/16W
R409	1-216-821-11	RES-CHIP	1K	5%	1/16W	R472	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R410	1-218-673-11	METAL CHIP	160	0.5%	1/16W	R473	1-216-809-11	RES-CHIP	100	5%	1/16W
R411	1-218-673-11	METAL CHIP	160	0.5%	1/16W	R476	1-216-808-11	RES-CHIP	82	5%	1/16W
R412	1-216-813-11		220	5%	1/16W						
R413	1-218-668-11	METAL CHIP	100	0.5%	1/16W	R477	1-216-829-11		4.7K	5%	1/16W
						R480	1-216-829-11		4.7K	5%	1/16W
R414		METAL CHIP	100	0.5%	1/16W	R481	1-216-821-11		1K	5%	1/16W
R415		METAL CHIP	100	0.5%	1/16W	R482	1-216-839-11		33K	5%	1/16W
R416	1-216-857-11		1M	5%	1/16W	R483	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R417	1-216-809-11		100	5%	1/16W	D 404	1 217 900 11	DEC CHID	100	F0/	1/1/37
R418	1-216-809-11	RES-CHIP	100	5%	1/16W	R484 R486	1-216-809-11 1-216-809-11		100 100	5% 5%	1/16W 1/16W
R419	1 218 702 11	METAL CHIP	2.7K	0.5%	1/16W	R487	1-216-809-11		100	5%	1/16W 1/16W
R420		METAL CHIP	1.8K	0.5%	1/16W 1/16W	R489	1-216-829-11		4.7K	5%	1/16W
R421	1-216-809-11		100	5%	1/16W	R490	1-216-808-11		82 82	5%	1/16W
R422	1-216-809-11		100	5%	1/16W	10.00	1 210 000 11	RES CIM	02	570	1/1011
R423	1-216-809-11		100	5%	1/16W	R491	1-216-833-11	RES-CHIP	10K	5%	1/16W
				- / -	-,	R492	1-216-864-11		0		-,
R424	1-218-674-11	METAL CHIP	180	0.5%	1/16W	R493	1-216-829-11		4.7K	5%	1/16W
R425	1-218-674-11	METAL CHIP	180	0.5%	1/16W	R494	1-216-833-11	RES-CHIP	10K	5%	1/16W
R426	1-218-674-11	METAL CHIP	180	0.5%	1/16W	R495	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R427	1-218-673-11	METAL CHIP	160	0.5%	1/16W						
R428	1-216-864-11	SHORT	0			R496	1-216-809-11	RES-CHIP	100	5%	1/16W
						R501	1-216-808-11	RES-CHIP	82	5%	1/16W
R431	1-216-809-11		100	5%	1/16W	R503	1-216-833-11		10K	5%	1/16W
R432	1-216-817-11		470	5%	1/16W	R504	1-216-829-11		4.7K	5%	1/16W
R433	1-216-817-11		470	5%	1/16W	R505	1-216-821-11	RES-CHIP	1K	5%	1/16W
R434	1-216-809-11		100	5%	1/16W						
R435	1-216-817-11	RES-CHIP	470	5%	1/16W	R506	1-216-837-11		22K	5%	1/16W
D.426	1 216 000 11	DEC CHID	100	50 /	1/1/377	R507	1-216-825-11		2.2K	5%	1/16W
R436	1-216-809-11		100	5%	1/16W	R508	1-216-825-11		2.2K	5%	1/16W
R437 R438	1-216-809-11 1-216-809-11		100 100	5% 5%	1/16W 1/16W	R509 R511	1-216-837-11 1-216-847-11		22K 150K	5% 5%	1/16W 1/16W
R439	1-216-809-11		470	5%	1/16W 1/16W	KJII	1-210-647-11	KES-CHIF	130K	370	1/10 VV
R440	1-216-813-11		220	5%	1/16W 1/16W	R512	1-216-864-11	SHORT	0		
IX++0	1-210-013-11	KLS-CIII	220	370	1/10**	R512	1-216-829-11		4.7K	5%	1/16W
R441	1-216-813-11	RES-CHIP	220	5%	1/16W	R515	1-216-809-11		100	5%	1/16W
R442	1-216-813-11		220	5%	1/16W	R516	1-216-809-11		100	5%	1/16W
R443	1-216-809-11		100	5%	1/16W	R517	1-216-809-11		100	5%	1/16W
R444	1-216-809-11		100	5%	1/16W						
R445	1-216-809-11		100	5%	1/16W	R519	1-216-809-11	RES-CHIP	100	5%	1/16W
						R521	1-216-833-11	RES-CHIP	10K	5%	1/16W
R446	1-216-809-11	RES-CHIP	100	5%	1/16W	R526	1-216-839-11	RES-CHIP	33K	5%	1/16W
R447	1-216-809-11		100	5%	1/16W	R527	1-216-864-11		0		
R448	1-216-809-11	RES-CHIP	100	5%	1/16W	R538	1-216-809-11	RES-CHIP	100	5%	1/16W
R449	1-216-809-11		100	5%	1/16W						
R450	1-216-814-11	RES-CHIP	270	5%	1/16W	R540	1-216-809-11		100	5%	1/16W
D 4=-		DEG 611-	250	- 0:	4 /4	R541	1-216-831-11		6.8K	5%	1/16W
R451	1-216-814-11		270	5%	1/16W	R542	1-216-809-11		100	5%	1/16W
R452	1-216-814-11		270	5%	1/16W	R543	1-216-826-11		2.7K	5%	1/16W
R453	1-216-841-11		47K	5%	1/16W	R544	1-216-827-11	KES-CHIP	3.3K	5%	1/16W
R454	1-216-837-11		22K	5% 5%	1/16W	D547	1 216 900 11	DEC CHID	100	50/	1/16W
R455	1-216-837-11	VES-CHIL	22K	5%	1/16W	R547 R550	1-216-809-11 1-216-863-11		100 3.3M	5% 5%	1/16W 1/16W
R456	1-216-825-11	BES-CHID	2.2K	5%	1/16W	R550 R551	1-216-803-11		3.3M 10K	5% 5%	1/16W 1/16W
R456 R457	1-216-825-11		2.2K 2.2K	5% 5%	1/16W 1/16W	R551	1-216-833-11		10K 100	5% 5%	1/16W 1/16W
R457 R458	1-216-825-11		2.2K 2.2K	5%	1/16W 1/16W	R553	1-216-809-11		100 12K	5%	1/16W 1/16W
R459	1-216-825-11		330	5%	1/16W 1/16W	11333	1 210-034-11	KLD CIIII	1211	J /0	1/10 **
R460	1-216-815-11		330	5%	1/16W 1/16W	R554	1-216-809-11	RES-CHIP	100	5%	1/16W
_1.00	010 11			- / -		R556	1-216-808-11		82	5%	1/16W
R461	1-216-815-11	RES-CHIP	330	5%	1/16W	R557	1-216-808-11		82	5%	1/16W
R462	1-216-817-11		470	5%	1/16W	R558	1-216-808-11		82	5%	1/16W
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R559	REF. NO.	PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTION			REMARK
Second 1-216-829-11 RES-CHIP	D550	1 216 917 11	DEC CHID	470	50/	1/16W						
\$250	K339	1-210-817-11	кез-спіг	470	3%	1/10 W	D720	1 216 900 11	DEC CHID	100	F0/	1/1/1
\$856	R561	1-216-829-11	RES-CHIP	4 7K	5%	1/16W						
\$2.56 \$2.16 \(\text{S2-9-1} \) \$2.56 \(\text{S2-1} \)												
1-218-708-1 METAL CHIP 4-7K 0.5% 1/16W R724 1-216-825-11 RES-CHIP 100 5% 1/16W R756 1-216-809-11 RES-CHIP 100 5% 1/16W R757 1-216-809-11 RES-CHIP 10K 5% 1/16W R757 1-216-809-11 RES-CHIP 10K 5% 1/16W R757 1-216-809-11 RES-CHIP 10K 5% 1/16W R757 1-216-831-11 RES-CHIP 10K 5% 1/16W R758 1-216-831-11 RES-CHIP 10K 5% 1/16W R759 1-216-831-11												
R569 1-216-809-11 RES-CHIP 100 5% 1/6W R728 1-216-809-11 RES-CHIP 100 5% 1/6W R721 1-216-809-11 RES-CHIP 100 5% 1/6W R721 1-216-809-11 RES-CHIP 100 5% 1/6W R723 1-216-821-11 RES-CHIP 100 5% 1/6W R721 1-216-831-11 RES-CHIP 100 5% 1/6W R721 1-216-831-11 RES-CHIP 100 5% 1/6W R721 1-216-831-11 RES-CHIP 100 5% 1/6W R722 1-216-831-11 RES-CHIP 100 5% 1/6W R723 1-216-821-11 RES-CHIP 100 5% 1/6W R724 1-216-821-11 RES-CHIP 100 5% 1/6W R724 1-216-821-11 RES-CHIP 100 5% 1/6W R725 1-216-821-11 RES-CHIP 100 5% 1/6W R726 1-216-821-11 RES-CHIP 100												
1.559							K/24	1-210-623-11	кез-спіг	2.2K	370	1/10 VV
1-216-890-11 RES-CHIP	11300	1 210 007 11	RES CITI	100	570	1, 10 11	D725	1 216 900 11	DEC CHID	100	50/	1/16W/
1-218-716-11 MEDAL CHIP 10K 0.5 1/16W 12/16-801-11 RES-CHIP 10K 5 1/16W 17/16W 12/16-801-11 RES-CHIP 10K 5 1/16W 12/16-801-11 RES-CHIP 10K	R569	1-216-809-11	RES-CHIP	100	5%	1/16W					370	1/10 VV
1-216-884-11 SHORT											50%	1/16W
\$274 \$1216-833-11 RIS-CHIP 15K 5% 176W 8736 \$1-216-833-11 RIS-CHIP 10K 5% 176W 8737 \$1-216-833-11 RIS-CHIP 10K 5% 176W 8736 \$1-216-833-11 RIS-CHIP 220 5% 176W 8736 \$1-216-833-11 RIS-CHIP 47K 5% 176W 8737 \$1-216-833-11 RIS-CHIP 47K 5% 176W 8737 \$1-216-833-11 RIS-CHIP 47K 5% 176W 8738 \$1-216-833-11 RIS-CHIP 10K 5% 176W 8738 \$1-216-833-11 RIS-CHIP 10K 5% 176W 8738 \$1-216-832-11 RIS-CHIP 10K 5% 176W 8739 \$1-216-832-11 RIS-CHIP 10K 5% 176W 8734 \$1-216-832-11 RIS-CHIP 10K 5% 176W 8739 \$1-216-832-11 RIS-CHIP 10K 5% 176W 8734 \$1-216-832-11 RIS-CHIP 10K 5% 176W 8739 \$1-216-832					0.570	1, 10 11						
R575 1-216-833-11 RES-CHIP 10K 5% 1/16W R737 1-216-831-11 RES-CHIP 10K 5% 1/16W R737 1-216-831-11 RES-CHIP 10K 5% 1/16W R737 1-216-832-11 RES-CHIP 4.7K 5% 1/16W R737 1-216-832-11 RES-CHIP 4.7K 5% 1/16W R737 1-216-832-11 RES-CHIP 4.7K 5% 1/16W R737 1-216-832-11 RES-CHIP 10K 5% 1/16W R746 1-216-832-11 RES-CHIP 10K 5% 1/16W R746 1-216-832-11 RES-CHIP 10K 5% 1/16W R745 1-216-					5%	1/16W						
R575 1-216-833-11 RES-CHIP							K/33	1-210-655-11	кез-спіг	10K	J 70	1/10 VV
R757 1-216-833-11 RES-CHIP 10K 5% 1/16W R737 1-216-839-11 RES-CHIP 10K 5% 1/16W R737 1-216-839-11 RES-CHIP 4.7K 5% 1/16W R737 1-216-839-11 RES-CHIP 4.7K 5% 1/16W R740 1-216-809-11 RES-CHIP 10K 5%	1.07.	1 210 000 11	1125 01111	1011	270	1,10,1	R736	1-216-813-11	RES_CHIP	220	5%	1/16W
R577 -1216-829-11 RES-CHIP	R575	1-216-833-11	RES-CHIP	10K	5%	1/16W						
R573												
R595												
R595												
R597							11/42	1-210-021-11	KLS-CIII	111	5 /0	1/10 **
R595						.,	P7/13	1-216-800-11	RES_CHIP	100	5%	1/16W
R599	R597	1-216-821-11	RES-CHIP	1K	5%	1/16W						
R599												
R602 1-216-837-11 RES-CHIP 22K 5% 1/16W R747 1-216-809-11 RES-CHIP 100 5% 1/16W R603 1-216-833-11 RES-CHIP 10K 5% 1/16W R748 1-216-833-11 RES-CHIP 10K 5% 1/16W R748 1-216-833-11 RES-CHIP 10K 5% 1/16W R749 1-216-833-11 RES-CHIP 10K 5% 1/16W R750 1-216-825-11 RES-CHIP 22K 5% 1/16W R607 1-216-833-11 RES-CHIP 10K 5% 1/16W R751 1-216-821-11 RES-CHIP 1K 5% 1/16W R609 1-216-833-11 RES-CHIP 10K 5% 1/16W R753 1-216-809-11 RES-CHIP 10C 5% 1/16W R613 1-216-809-11 RES-CHIP 10K 5% 1/16W R754 1-216-809-11 RES-CHIP 10C 5% 1/16W R616 1-216-832-11 RES-CHIP 10K </td <td></td>												
R603 1-216-833-11 RES-CHIP 10K 5% 1/16W R748 1-216-833-11 RES-CHIP 20K 5% 1/16W R749 1-216-849-11 RES-CHIP 220K 5% 1/16W R750 1-216-825-11 RES-CHIP 10K 5% 1/16W R750 1-216-825-11 RES-CHIP 10K 5% 1/16W R750 1-216-825-11 RES-CHIP 10K 5% 1/16W R750 1-216-821-11 RES-CHIP 1K 5% 1/16W R750 1-216-821-11 RES-CHIP 10K 5% 1/16W R751 1-216-809-11 RES-CHIP 10K 5% 1/16W R753 1-216-809-11 RES-CHIP 10K 5% 1/16W R753 1-216-809-11 RES-CHIP 10K 5% 1/16W R753 1-216-809-11 RES-CHIP 10K 5% 1/16W R754 1-216-809-11 RES-CHIP 10K 5% 1/16W R755 1-216-809-11 RES-CHIP 10K 5% 1/16W R756 1-216-809-11 RES-CHIP 10K 5% 1/16W R759 1-216-809-11 RES-CHIP 10K 5% 1/16W R759 1-216-809-11 RES-CHIP 10K 5% 1/16W R760 1-216-809-11 RES-CHIP 10K 5% 1/16W R760 1-216-809-11 RES-CHIP 10K 5% 1/16W R761 1-216-809-11 RES-CHIP 20K 5% 1/16W R762 1-216-809-11 RES-CHIP 68 5% 1/16W R763 1-216-815-11 RES-CHIP 330 5% 1/16W R763 1-216-815-11 RES-CHIP 10K 5% 1/16W R763 1-216-815-11 RES-CHIP 10K 5% 1/16W R763 1-216-813-11 RES-CHIP 10K 5% 1/16W R763 1-216-809-11 RES-CHIP 10K 5% 1/16W R763 1-216-809-11 RES-CHIP 10K 5% 1/16W R766 1-216-809-11 RES-CHIP 10K 5% 1/16W												
R604 -216-833-11 RES-CHIP 10K 5% 1/16W R749 1-216-849-11 RES-CHIP 22K 5% 1/16W R760 1-216-833-11 RES-CHIP 10K 5% 1/16W R750 1-216-821-11 RES-CHIP 22K 5% 1/16W R760 1-216-833-11 RES-CHIP 10K 5% 1/16W R751 1-216-821-11 RES-CHIP 1K 5% 1/16W R760 1-216-833-11 RES-CHIP 10K 5% 1/16W R751 1-216-821-11 RES-CHIP 1K 5% 1/16W R760 1-216-833-11 RES-CHIP 10K 5% 1/16W R751 1-216-821-11 RES-CHIP 1K 5% 1/16W R761 1-216-833-11 RES-CHIP 10K 5% 1/16W R754 1-216-809-11 RES-CHIP 10O 5% 1/16W R761 1-216-833-11 RES-CHIP 10K 5% 1/16W R755 1-216-809-11 RES-CHIP 10O 5% 1/16W R761 1-216-833-11 RES-CHIP 10K 5% 1/16W R755 1-216-809-11 RES-CHIP 10O 5% 1/16W R761 1-216-809-11 RES-CHIP 10O 5% 1/16W R758 1-216-809-11 RES-CHIP 10O 5% 1/16W R759 1-216-809-11 RES-CHIP 10O 5% 1/16W R759 1-216-809-11 RES-CHIP 10O 5% 1/16W R760 1-216-809-11 RES-CHIP 20K 5% 1/16W R761 1-216-809-11 RES-CHIP 20K 5% 1/16W R762 1-216-809-11 RES-CHIP 330 5% 1/16W R762 1-216-809-11 RES-CHIP 330 5% 1/16W R762 1-216-809-11 RES-CHIP 10O 5% 1/16W R763 1-216-809-11 RES-CHIP 10K 5% 1/16W R762 1-216-809-11 RES-CHIP 10K 5% 1/16W R763 1-216-809-11 RES-CHIP 10K 5% 1/16W R764 1-216-809-11 RES-CHIP 10K 5% 1/16W R766 1-216-809-11 RES-CHIP 10K 5% 1/16W R766 1-216-809-11 RES-CHIP 10K 5% 1/16W R766 1-216-809-11 RES-CHIP 10K 5% 1/16W R768 1-216-809-11 RES-CHIP 10K 5% 1/16W R769 1-216-809-11 RES-CHIP 10K 5% 1/16W R770 1-216-809-11 RES-CHIP 10K 5% 1/16W R771 1-216-809-11 RES-CHIP 10C 5% 1/16W							10/4/	1 210 007 11	KLD CIIII	100	570	1/10**
R604 1-216-833-11 RES-CHIP 10K 5% 1/16W R749 1-216-825-11 RES-CHIP 20K 5% 1/16W R605 1-216-833-11 RES-CHIP 10K 5% 1/16W R750 1-216-825-11 RES-CHIP 10K 5% 1/16W R607 1-216-833-11 RES-CHIP 10K 5% 1/16W R751 1-216-821-11 RES-CHIP 10K 5% 1/16W R608 1-216-833-11 RES-CHIP 10K 5% 1/16W R753 1-216-821-11 RES-CHIP 10C 5% 1/16W R609 1-216-809-11 RES-CHIP 10C 5% 1/16W R753 1-216-809-11 RES-CHIP 10C 5% 1/16W R613 1-216-833-11 RES-CHIP 10K 5% 1/16W R755 1-216-809-11 RES-CHIP 10C 5% 1/16W R614 1-216-831-11 RES-CHIP 10K 5% 1/16W R756 1-216-809-11 RES-CHIP 10C 5% 1/16W R617 1-216-830-11 RES-CHIP 10C 5% 1/16W R750						-,	R748	1-216-833-11	RES_CHIP	10K	5%	1/16W
R605 1-216-833-11 RES-CHIP 10K 5% 1/16W R750 1-216-825-11 RES-CHIP 22.K 5% 1/16W R606 1-216-833-11 RES-CHIP 10K 5% 1/16W R751 1-216-821-11 RES-CHIP 1K 5% 1/16W R607 1-216-833-11 RES-CHIP 10K 5% 1/16W R752 1-216-821-11 RES-CHIP 1K 5% 1/16W R609 1-216-833-11 RES-CHIP 10K 5% 1/16W R754 1-216-809-11 RES-CHIP 10 5% 1/16W R613 1-216-833-11 RES-CHIP 10K 5% 1/16W R755 1-216-809-11 RES-CHIP 10 5% 1/16W R755 1-216-809-11 RES-CHIP 10 5% 1/16W R756 1-216-809-11 RES-CHIP 10 5% 1/16W R758 1-216-809-11 RES-CHIP 10 5% 1/16W R759 1-216-809-11 RES-CHIP 10 5%	R604	1-216-833-11	RES-CHIP	10K	5%	1/16W						
R606 1-216-833-11 RES-CHIP 10K 5% 1/16W R751 1-216-821-11 RES-CHIP 1K 5% 1/16W R607 1-216-833-11 RES-CHIP 10K 5% 1/16W R752 1-216-821-11 RES-CHIP 1K 5% 1/16W R609 1-216-833-11 RES-CHIP 100 5% 1/16W R753 1-216-809-11 RES-CHIP 100 5% 1/16W R614 1-216-836-11 RES-CHIP 10K 5% 1/16W R755 1-216-809-11 RES-CHIP 100 5% 1/16W R615 1-216-832-11 RES-CHIP 10K 5% 1/16W R756 1-216-809-11 RES-CHIP 100 5% 1/16W R615 1-216-832-11 RES-CHIP 10K 5% 1/16W R758 1-216-809-11 RES-CHIP 10C 5% 1/16W R617 1-216-832-11 RES-CHIP 10O 5% 1/16W R760 1-216-821-11 RES-CHIP		1-216-833-11	RES-CHIP			1/16W						
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R608 1-216-833-11 RES-CHIP 10K 5% 1/16W R753 1-216-809-11 RES-CHIP 100 5% 1/16W R754 1-216-809-11 RES-CHIP 100 5% 1/16W R754 1-216-809-11 RES-CHIP 100 5% 1/16W R754 1-216-809-11 RES-CHIP 100 5% 1/16W R756 1-216-809-11 RES-CHIP 100 5% 1/16W R758 1-216-809-11 RES-CHIP 100 5% 1/16W R758 1-216-809-11 RES-CHIP 100 5% 1/16W R758 1-216-809-11 RES-CHIP 100 5% 1/16W R759 1-216-809-11 RES-CHIP 100 5% 1/16W R760 1-216-849-11 RES-CHIP 220K 5% 1/16W R761 1-216-809-11 RES-CHIP 100 5% 1/16W R761 1-216-809-11 RES-CHIP 220K 5% 1/16W R761 1-216-809-11 RES-CHIP 100 5% 1/16W R762 1-216-845-11 RES-CHIP 100 5% 1/16W R762 1-216-81-11 RES-CHIP 100K 5% 1/16W R762 1-216-81-11 RES-CHIP 100K 5% 1/16W R762 1-216-81-11 RES-CHIP 100K 5% 1/16W R763 1-216-81-11 RES-CHIP 330 5% 1/16W R762 1-216-81-11 RES-CHIP 100K 5% 1/16W R763 1-216-81-11 RES-CHIP 100K 5% 1/16W R764 1-216-821-11 RES-CHIP 100K 5% 1/16W R766 1-216-821-11 RES-CHIP 100K 5% 1/16W R768 1-216-809-11 RES-CHIP 100K 5% 1/16W R768 1-216-809-11 RES-CHIP 100K 5% 1/16W R768 1-216-809-11 RES-CHIP 100K 5% 1/16W R769 1-216-809-11 RES-CHIP 100K 5% 1/16W R769 1-216-809-11 RES-CHIP 100K 5% 1/16W R769 1-216-809-11 RES-CHIP 100K 5% 1/16W R770 1-216-809-11 RES-CHIP 100K 5% 1/16W R770 1-216-809-11 RES-CHIP 100K 5% 1/16W R770 1-216-809-11 RES-CHIP 100K 5% 1/16W R771 1-216-809-11 RES-CHIP 100K 5% 1/16W R771 1-216-809-11 RES-CHIP 100K 5% 1/16W R7												
R609							10/32	1 210 021 11	KLD CIIII	111	570	1/10**
R609 1-216-809-11 RES-CHIP 100 5% 1/16W R754 1-216-809-11 RES-CHIP 100 5% 1/16W R613 1-216-833-11 RES-CHIP 10K 5% 1/16W R755 1-216-809-11 RES-CHIP 100 5% 1/16W R614 1-216-833-11 RES-CHIP 8.2K 5% 1/16W R755 1-216-809-11 RES-CHIP 100 5% 1/16W R616 1-216-833-11 RES-CHIP 10K 5% 1/16W R759 1-216-809-11 RES-CHIP 10O 5% 1/16W R617 1-216-809-11 RES-CHIP 10O 5% 1/16W R760 1-216-89-11 RES-CHIP 20K 5% 1/16W R619 1-216-821-11 RES-CHIP 10O 5% 1/16W R760 1-216-89-11 RES-CHIP 20K 5% 1/16W R619 1-216-897-11 RES-CHIP 68 5% 1/16W R762 1-216-81-11 RES-CHIP 20K 5% 1/16W R620 1-216-807-11 RES-CHIP 68 5% 1/16W R764 <						-,	R753	1-216-809-11	RES_CHIP	100	5%	1/16W
R613 1-216-833-11 RES-CHIP 10K 5% 1/16W R755 1-216-809-11 RES-CHIP 100 5% 1/16W R614 1-216-836-11 RES-CHIP 10K 5% 1/16W R756 1-216-809-11 RES-CHIP 100 5% 1/16W R616 1-216-832-11 RES-CHIP 10K 5% 1/16W R758 1-216-809-11 RES-CHIP 100 5% 1/16W R616 1-216-832-11 RES-CHIP 10K 5% 1/16W R760 1-216-821-11 RES-CHIP 10C 5% 1/16W R617 1-216-809-11 RES-CHIP 10O 5% 1/16W R760 1-216-849-11 RES-CHIP 200K 5% 1/16W R617 1-216-809-11 RES-CHIP 10C 5% 1/16W R761 1-216-849-11 RES-CHIP 100 5% 1/16W R762 1-216-807-11 RES-CHIP 10K 5% 1/16W R763 1-216-815-11 RES-CHIP 10K	R609	1-216-809-11	RES-CHIP	100	5%	1/16W						
R614 1-216-836-11 RES-CHIP 18K 5% 1/16W R756 1-216-899-11 RES-CHIP 100 5% 1/16W R615 1-216-832-11 RES-CHIP 10K 5% 1/16W R758 1-216-809-11 RES-CHIP 100 5% 1/16W R617 1-216-809-11 RES-CHIP 100 5% 1/16W R760 1-216-821-11 RES-CHIP 100 5% 1/16W R760 1-216-821-11 RES-CHIP 100 5% 1/16W R760 1-216-821-11 RES-CHIP 220K 5% 1/16W R761 1-216-821-11 RES-CHIP 100 5% 1/16W R762 1-216-849-11 RES-CHIP 100 5% 1/16W R762 1-216-845-11 RES-CHIP 100K 5% 1/16W R621 1-216-807-11 RES-CHIP 68 5% 1/16W R765 1-216-845-11 RES-CHIP 100 5% 1/16W R765 1-216-821-11 RES-CHIP 100 5%												
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R616 1-216-833-11 RES-CHIP 10K 5% 1/16W R759 1-216-821-11 RES-CHIP 1K 5% 1/16W R617 1-216-809-11 RES-CHIP 100 5% 1/16W R760 1-216-849-11 RES-CHIP 220K 5% 1/16W R618 1-216-809-11 RES-CHIP 100 5% 1/16W R761 1-216-849-11 RES-CHIP 220K 5% 1/16W R619 1-216-807-11 RES-CHIP 1K 5% 1/16W R762 1-216-849-11 RES-CHIP 100K 5% 1/16W R620 1-216-807-11 RES-CHIP 68 5% 1/16W R763 1-216-81-11 RES-CHIP 330 5% 1/16W R621 1-216-807-11 RES-CHIP 68 5% 1/16W R765 1-216-81-11 RES-CHIP 1K 5% 1/16W R622 1-216-807-11 RES-CHIP 100 5% 1/16W R765 1-216-821-11 RES-CHIP												
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R618 1-216-809-11 RES-CHIP 100 5% 1/16W R761 1-216-849-11 RES-CHIP 220K 5% 1/16W R619 1-216-821-11 RES-CHIP 1K 5% 1/16W R762 1-216-845-11 RES-CHIP 100K 5% 1/16W R620 1-216-807-11 RES-CHIP 68 5% 1/16W R764 1-216-815-11 RES-CHIP 330 5% 1/16W R621 1-216-807-11 RES-CHIP 68 5% 1/16W R764 1-216-815-11 RES-CHIP 130 5% 1/16W R622 1-216-807-11 RES-CHIP 100 5% 1/16W R766 1-216-821-11 RES-CHIP 130 5% 1/16W R624 1-216-809-11 RES-CHIP 100 5% 1/16W R766 1-216-821-11 RES-CHIP 10K 5% 1/16W R701 1-216-817-11 RES-CHIP 470 5% 1/16W R769 1-216-891-11 RES-CHIP <td>R617</td> <td>1-216-809-11</td> <td>RES-CHIP</td> <td>100</td> <td>5%</td> <td>1/16W</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	R617	1-216-809-11	RES-CHIP	100	5%	1/16W						
R619	R618	1-216-809-11	RES-CHIP	100	5%	1/16W						
R620 1-216-807-11 RES-CHIP 68 5% 1/16W R763 1-216-815-11 RES-CHIP 330 5% 1/16W R621 1-216-807-11 RES-CHIP 68 5% 1/16W R764 1-216-821-11 RES-CHIP 1K 5% 1/16W R622 1-216-807-11 RES-CHIP 100 5% 1/16W R766 1-216-815-11 RES-CHIP 330 5% 1/16W R624 1-216-809-11 RES-CHIP 100 5% 1/16W R766 1-216-821-11 RES-CHIP 10K 5% 1/16W R628 1-249-377-11 CARBON 0.47 5% 1/16W R766 1-216-821-11 RES-CHIP 10K 5% 1/16W R701 1-216-817-11 RES-CHIP 47K 5% 1/16W R769 1-216-809-11 RES-CHIP 10O 5% 1/16W R702 1-216-821-11 RES-CHIP 1K 5% 1/16W R771 1-216-809-11 RES-CHIP	R619	1-216-821-11	RES-CHIP	1K	5%							
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R622 1-216-807-11 RES-CHIP 68 5% 1/16W R765 1-216-815-11 RES-CHIP 330 5% 1/16W R624 1-216-809-11 RES-CHIP 100 5% 1/16W R766 1-216-821-11 RES-CHIP 1K 5% 1/16W R628 1-249-377-11 CARBON 0.47 5% 1/4W R766 1-216-821-11 RES-CHIP 1K 5% 1/16W R701 1-216-817-11 RES-CHIP 470 5% 1/16W R768 1-216-809-11 RES-CHIP 100 5% 1/16W R702 1-216-841-11 RES-CHIP 47K 5% 1/16W R769 1-216-809-11 RES-CHIP 100 5% 1/16W R703 1-216-821-11 RES-CHIP 1K 5% 1/16W R771 1-216-809-11 RES-CHIP 100 5% 1/16W R704 1-216-809-11 RES-CHIP 100 5% 1/16W R773 1-216-809-11 RES-CHIP							R764	1-216-821-11	RES-CHIP	1K	5%	1/16W
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R701 1-216-817-11 RES-CHIP 470 5% 1/16W R768 1-216-809-11 RES-CHIP 100 5% 1/16W R702 1-216-841-11 RES-CHIP 47K 5% 1/16W R769 1-216-809-11 RES-CHIP 100 5% 1/16W R703 1-216-821-11 RES-CHIP 100 5% 1/16W R703 1-216-809-11 RES-CHIP 100 5% 1/16W R705 1-216-809-11 RES-CHIP 100 5% 1/16W R705 1-216-809-11 RES-CHIP 100 5% 1/16W R706 1-216-809-11 RES-CHIP 100 5% 1/16W R706 1-216-809-11 RES-CHIP 100 5% 1/16W R707 1-216-809-11 RES-CHIP 100 5% 1/16W R707 1-216-809-11 RES-CHIP 100 5% 1/16W R708 1-216-809-11 RES-CHIP 100 5% 1/16W R709 1-216-817-11 RES-CHIP 100 5% 1/16W R709 1-216-813-11 RES-CHIP 220 5% 1/16W R777 1-216-821-11 RES-CHIP 1K 5% 1/16W R710 1-216-833-11 RES-CHIP 220 5% 1/16W R778 1-216-809-11 RES-CHIP 100 5% 1/16W R711 1-216-833-11 RES-CHIP 220 5% 1/16W R778 1-216-809-11 RES-CHIP 100 5% 1/16W R711 1-216-813-11 RES-CHIP 220 5% 1/16W R778 1-216-809-11 RES-CHIP 100 5% 1/16W R712 1-216-813-11 RES-CHIP 220 5% 1/16W R778 1-216-809-11 RES-CHIP 100 5% 1/16W R714 1-216-809-11 RES-CHIP 100 5% 1/16W R715 1-216-809-11 RES-CHIP 100 5% 1/16W R781 1-216-823-11 RES-CHIP 100 5% 1/16W R715 1-216-809-11 RES-CHIP 100 5% 1/16W R781 1-216-821-11 RES-CHIP 100 5% 1/16W R716 1-216-821-11 RES-CHIP 100 5% 1/16W R781 1-216-821-11 RES-CHIP 100 5% 1/16W R781 1-216-821-11 RES-CHIP 100 5% 1/16W R716 1-216-821-11 RES-CHIP 100 5% 1/16W R781 1-216-821-	R628	1-249-377-11	CARBON	0.47	5%	1/4W						
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R703 1-216-821-11 RES-CHIP 1K 5% 1/16W R771 1-216-809-11 RES-CHIP 100 5% 1/16W R705 1-216-809-11 RES-CHIP 100 5% 1/16W R706 1-216-809-11 RES-CHIP 100 5% 1/16W R707 1-216-809-11 RES-CHIP 100 5% 1/16W R707 1-216-809-11 RES-CHIP 100 5% 1/16W R708 1-216-809-11 RES-CHIP 100 5% 1/16W R708 1-216-809-11 RES-CHIP 100 5% 1/16W R709 1-216-817-11 RES-CHIP 470 5% 1/16W R775 1-216-821-11 RES-CHIP 1K 5% 1/16W R710 1-216-813-11 RES-CHIP 220 5% 1/16W R778 1-216-821-11 RES-CHIP 1K 5% 1/16W R711 1-216-833-11 RES-CHIP 10K 5% 1/16W R778 1-216-809-11 RES-CHIP 100 5% 1/16W R711 1-216-813-11 RES-CHIP 220 5% 1/16W R779 1-216-809-11 RES-CHIP 100 5% 1/16W R711 1-216-809-11 RES-CHIP 100 5% 1/16W R714 1-216-809-11 RES-CHIP 100 5% 1/16W R715 1-216-809-11 RES-CHIP 100 5% 1/16W R715 1-216-809-11 RES-CHIP 100 5% 1/16W R716 1-216-821-11 RES-CHIP 100 5% 1/16W R718 1-216-821-11 RES-CHIP 100 5% 1/16W R718 1-216-821-11 RES-CHIP 100 5% 1/16W R718 1-216-827-11 RES-CHIP 100 5% 1/16W R718 1-21												
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R707 1-216-809-11 RES-CHIP 100 5% 1/16W R708 1-216-809-11 RES-CHIP 100 5% 1/16W R709 1-216-817-11 RES-CHIP 470 5% 1/16W R710 1-216-813-11 RES-CHIP 220 5% 1/16W R711 1-216-833-11 RES-CHIP 10K 5% 1/16W R712 1-216-813-11 RES-CHIP 220 5% 1/16W R714 1-216-809-11 RES-CHIP 100 5% 1/16W R715 1-216-809-11 RES-CHIP 100 5% 1/16W R716 1-216-809-11 RES-CHIP 100 5% 1/16W R716 1-216-821-11 RES-CHIP 1K 5% 1/16W R717 1-216-821-11 RES-CHIP 100 5% 1/16W R718 1-216-827-11 RES-CHIP 100 5% 1/16W R719 1-216-809-11 RES-CHIP 100 5% 1/16W R711 1-216-809-11 RES-CHIP 100 5% 1/16W R712 1-216-809-11 RES-CHIP 100 5% 1/16W R713 1-216-809-11 RES-CHIP 100 5% 1/16W R714 1-216-809-11 RES-CHIP 100 5% 1/16W R715 1-216-809-11 RES-CHIP 100 5% 1/16W R716 1-216-821-11 RES-CHIP 100 5% 1/16W R717 1-216-827-11 RES-CHIP 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	R705	1-216-809-11	RES-CHIP	100	5%	1/16W	R772	1-216-821-11	RES-CHIP	1K	5%	1/16W
R708 1-216-809-11 RES-CHIP 100 5% 1/16W R774 1-216-809-11 RES-CHIP 100 5% 1/16W R775 1-216-821-11 RES-CHIP 1K 5% 1/16W R770 1-216-813-11 RES-CHIP 220 5% 1/16W R778 1-216-809-11 RES-CHIP 100 5% 1/16W R711 1-216-833-11 RES-CHIP 10K 5% 1/16W R779 1-216-809-11 RES-CHIP 100 5% 1/16W R712 1-216-813-11 RES-CHIP 220 5% 1/16W R779 1-216-809-11 RES-CHIP 100 5% 1/16W R714 1-216-809-11 RES-CHIP 100 5% 1/16W R714 1-216-809-11 RES-CHIP 100 5% 1/16W R781 1-216-809-11 RES-CHIP 100 5% 1/16W R782 1-216-809-11 RES-CHIP 100 5% 1/16W R782 1-216-809-11 RES-CHIP 100 5% 1/16W R782 1-216-809-11 RES-CHIP 100 5% 1/16W R781 1-216-809-11 RES-CHIP 100 5% 1/16W R781 1-216-809-11 RES-CHIP 100 5% 1/16W R782 1-216-809-11 RES-CHIP 100 5% 1/16W R783 1-216-809-11 RES-CHIP 100 5% 1/16W R716 1-216-821-11 RES-CHIP 1K 5% 1/16W R784 1-216-809-11 RES-CHIP 100 5% 1/16W R717 1-216-827-11 RES-CHIP 3.3K 5% 1/16W R785 1-216-821-11 RES-CHIP 1K 5% 1/16W R718 1-216-827-11 RES-CHIP 3.3K 5% 1/16W R785 1-216-821-11 RES-CHIP 1K 5% 1/16W R718 1-216-827-11 RES-CHIP 3.3K 5% 1/16W	R706	1-216-809-11	RES-CHIP	100	5%	1/16W	R773	1-216-809-11	RES-CHIP	100	5%	1/16W
R709 1-216-817-11 RES-CHIP 470 5% 1/16W R777 1-216-821-11 RES-CHIP 1K 5% 1/16W R710 1-216-813-11 RES-CHIP 220 5% 1/16W R778 1-216-809-11 RES-CHIP 100 5% 1/16W R711 1-216-833-11 RES-CHIP 10K 5% 1/16W R779 1-216-809-11 RES-CHIP 100 5% 1/16W R712 1-216-813-11 RES-CHIP 220 5% 1/16W R779 1-216-809-11 RES-CHIP 100 5% 1/16W R714 1-216-809-11 RES-CHIP 100 5% 1/16W R781 1-216-809-11 RES-CHIP 100 5% 1/16W R782 1-216-809-11 RES-CHIP 100 5% 1/16W R782 1-216-809-11 RES-CHIP 100 5% 1/16W R782 1-216-809-11 RES-CHIP 100 5% 1/16W R781 1-216-809-11 RES-CHIP 100 5% 1/16W R781 1-216-809-11 RES-CHIP 100 5% 1/16W R782 1-216-809-11 RES-CHIP 100 5% 1/16W R781 1-	R707	1-216-809-11	RES-CHIP	100	5%	1/16W						
R709 1-216-817-11 RES-CHIP 470 5% 1/16W R777 1-216-821-11 RES-CHIP 1K 5% 1/16W R710 1-216-813-11 RES-CHIP 220 5% 1/16W R778 1-216-809-11 RES-CHIP 100 5% 1/16W R711 1-216-833-11 RES-CHIP 10K 5% 1/16W R779 1-216-809-11 RES-CHIP 100 5% 1/16W R712 1-216-813-11 RES-CHIP 220 5% 1/16W R779 1-216-809-11 RES-CHIP 100 5% 1/16W R714 1-216-809-11 RES-CHIP 100 5% 1/16W R781 1-216-809-11 RES-CHIP 100 5% 1/16W R782 1-216-809-11 RES-CHIP 100 5% 1/16W R782 1-216-809-11 RES-CHIP 100 5% 1/16W R782 1-216-809-11 RES-CHIP 100 5% 1/16W R781 1-216-809-11 RES-CHIP 100 5% 1/16W R781 1-216-809-11 RES-CHIP 100 5% 1/16W R782 1-216-809-11 RES-CHIP 100 5% 1/16W R783 1-216-809-11 RES-CHIP 100 5% 1/16W R781 1-216-821-11 RES-CHIP 100 5% 1/16W R781 1-	R708	1-216-809-11	RES-CHIP	100	5%	1/16W	R774	1-216-809-11	RES-CHIP	100	5%	1/16W
R710 1-216-813-11 RES-CHIP 220 5% 1/16W R778 1-216-809-11 RES-CHIP 100 5% 1/16W R711 1-216-833-11 RES-CHIP 10K 5% 1/16W R779 1-216-809-11 RES-CHIP 100 5% 1/16W R712 1-216-813-11 RES-CHIP 220 5% 1/16W R714 1-216-809-11 RES-CHIP 100 5% 1/16W R781 1-216-823-11 RES-CHIP 1.5K 5% 1/16W R782 1-216-809-11 RES-CHIP 100 5% 1/16W R782 1-216-809-11 RES-CHIP 100 5% 1/16W R785 1-216-809-11 RES-CHIP 100 5% 1/16W R715 1-216-809-11 RES-CHIP 100 5% 1/16W R783 1-216-809-11 RES-CHIP 100 5% 1/16W R716 1-216-821-11 RES-CHIP 1K 5% 1/16W R784 1-216-809-11 RES-CHIP 100 5% 1/16W R717 1-216-827-11 RES-CHIP 3.3K 5% 1/16W R785 1-216-821-11 RES-CHIP 1K 5% 1/16W R718 1-216-827-11 RES-CHIP 3.3K 5% 1/16W							R775	1-216-821-11	RES-CHIP	1K	5%	1/16W
R710 1-216-813-11 RES-CHIP 220 5% 1/16W R778 1-216-809-11 RES-CHIP 100 5% 1/16W R711 1-216-833-11 RES-CHIP 10K 5% 1/16W R779 1-216-809-11 RES-CHIP 100 5% 1/16W R712 1-216-813-11 RES-CHIP 220 5% 1/16W R714 1-216-809-11 RES-CHIP 100 5% 1/16W R781 1-216-823-11 RES-CHIP 1.5K 5% 1/16W R782 1-216-809-11 RES-CHIP 100 5% 1/16W R782 1-216-809-11 RES-CHIP 100 5% 1/16W R785 1-216-809-11 RES-CHIP 100 5% 1/16W R786 1-216-821-11 RES-CHIP 100 5% 1/16W R78716 1-216-821-11 RES-CHIP 1K 5% 1/16W R784 1-216-809-11 RES-CHIP 100 5% 1/16W R717 1-216-827-11 RES-CHIP 3.3K 5% 1/16W R785 1-216-821-11 RES-CHIP 1K 5% 1/16W R788 1/16W R788 1-216-821-11 RES-CHIP 1K 5% 1/16W R788 1/16W	R709	1-216-817-11	RES-CHIP	470	5%	1/16W	R777	1-216-821-11	RES-CHIP		5%	1/16W
R711 1-216-833-11 RES-CHIP 10K 5% 1/16W R772 1-216-809-11 RES-CHIP 100 5% 1/16W R712 1-216-813-11 RES-CHIP 220 5% 1/16W R714 1-216-809-11 RES-CHIP 100 5% 1/16W R781 1-216-823-11 RES-CHIP 1.5K 5% 1/16W R782 1-216-809-11 RES-CHIP 100 5% 1/16W R782 1-216-809-11 RES-CHIP 100 5% 1/16W R785 1-216-809-11 RES-CHIP 100 5% 1/16W R786 1-216-821-11 RES-CHIP 100 5% 1/16W R7871 1-216-821-11 RES-CHIP 100 5% 1/16W R7871 1-216-827-11 RES-CHIP 3.3K 5% 1/16W R785 1-216-821-11 RES-CHIP 100 5% 1/16W R78718 1-216-827-11 RES-CHIP 3.3K 5% 1/16W R785 1-216-821-11 RES-CHIP 100 5% 1/16W R78718 1-216-827-11 RES-CHIP 3.3K 5% 1/16W R785 1-216-821-11 RES-CHIP 100 5% 1/16W R78718 1-216-827-11 RES-CHIP 3.3K 5% 1/16W R785 1-216-821-11 RES-CHIP 100 5% 1/16W R78718 1-216-827-11 RES-CHIP 3.3K 5% 1/16W R785 1-216-821-11 RES-CHIP 100 5% 1/16W R78718 1-216-827-11 RES-CHIP 3.3K 5% 1/16W R785 1-216-821-11 RES-CHIP 100 5% 1/16W R78718 1-216-827-11 RES-CHIP 100 5% 1/16W R785 1-216-821-11 RES-CHI	R710	1-216-813-11	RES-CHIP	220	5%	1/16W						
R712 1-216-813-11 RES-CHIP 220 5% 1/16W R714 1-216-809-11 RES-CHIP 100 5% 1/16W R715 1-216-809-11 RES-CHIP 100 5% 1/16W R716 1-216-821-11 RES-CHIP 100 5% 1/16W R716 1-216-821-11 RES-CHIP 1K 5% 1/16W R717 1-216-827-11 RES-CHIP 3.3K 5% 1/16W R718 1-216-827-11 RES-CHIP 3.3K 5% 1/16W R718 1-216-827-11 RES-CHIP 3.3K 5% 1/16W	R711	1-216-833-11	RES-CHIP	10K	5%	1/16W						
R715 1-216-809-11 RES-CHIP 100 5% 1/16W R783 1-216-809-11 RES-CHIP 100 5% 1/16W R716 1-216-821-11 RES-CHIP 1K 5% 1/16W R784 1-216-809-11 RES-CHIP 100 5% 1/16W R717 1-216-827-11 RES-CHIP 3.3K 5% 1/16W R785 1-216-821-11 RES-CHIP 1K 5% 1/16W R718 1-216-827-11 RES-CHIP 3.3K 5% 1/16W R785 1-216-821-11 RES-CHIP 1K 5% 1/16W R718 1-216-827-11 RES-CHIP 3.3K 5% 1/16W	R712	1-216-813-11	RES-CHIP	220	5%	1/16W						
R715 1-216-809-11 RES-CHIP 100 5% 1/16W R716 1-216-821-11 RES-CHIP 1K 5% 1/16W R717 1-216-827-11 RES-CHIP 3.3K 5% 1/16W R718 1-216-827-11 RES-CHIP 3.3K 5% 1/16W	R714	1-216-809-11	RES-CHIP	100	5%	1/16W	R781	1-216-823-11	RES-CHIP	1.5K	5%	1/16W
R715 1-216-809-11 RES-CHIP 100 5% 1/16W R716 1-216-821-11 RES-CHIP 1K 5% 1/16W R717 1-216-827-11 RES-CHIP 3.3K 5% 1/16W R718 1-216-827-11 RES-CHIP 3.3K 5% 1/16W												
R716 1-216-821-11 RES-CHIP 1K 5% 1/16W R784 1-216-809-11 RES-CHIP 100 5% 1/16W R717 1-216-827-11 RES-CHIP 3.3K 5% 1/16W R785 1-216-821-11 RES-CHIP 1K 5% 1/16W R718 1-216-827-11 RES-CHIP 3.3K 5% 1/16W	R715	1-216-809-11	RES-CHIP	100	5%	1/16W		1-216-809-11	RES-CHIP		5%	
R717 1-216-827-11 RES-CHIP 3.3K 5% 1/16W R785 1-216-821-11 RES-CHIP 1K 5% 1/16W R718 1-216-827-11 RES-CHIP 3.3K 5% 1/16W	R716	1-216-821-11	RES-CHIP	1K	5%	1/16W					5%	
R718 1-216-827-11 RES-CHIP 3.3K 5% 1/16W	R717	1-216-827-11	RES-CHIP	3.3K	5%	1/16W						
R719 1-216-813-11 RES-CHIP 220 5% 1/16W R786 1-216-821-11 RES-CHIP 1K 5% 1/16W												
	R719	1-216-813-11	RES-CHIP	220	5%	1/16W	R786	1-216-821-11	RES-CHIP	1K	5%	1/16W



REF. NO.	PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTION			REMARK
R787	1-216-833-11	RES-CHIP	10K	5%	1/16W	R866	1-216-841-11	RES-CHIP	47K	5%	1/16W
R788	1-216-845-11		100K	5%	1/16W	R867	1-216-837-11		22K	5%	1/16W
R790	1-216-837-11		22K	5%	1/16W						
R796	1-216-821-11		1K	5%	1/16W	R868	1-216-837-11	RES-CHIP	22K	5%	1/16W
						R869	1-216-834-11	RES-CHIP	12K	5%	1/16W
R797	1-216-829-11	RES-CHIP	4.7K	5%	1/16W	R870	1-216-841-11	RES-CHIP	47K	5%	1/16W
R803	1-216-833-11	RES-CHIP	10K	5%	1/16W	R871	1-216-809-11	RES-CHIP	100	5%	1/16W
R804	1-216-837-11	RES-CHIP	22K	5%	1/16W	R872	1-216-809-11	RES-CHIP	100	5%	1/16W
R806	1-216-829-11	RES-CHIP	4.7K	5%	1/16W						
R807	1-216-829-11	RES-CHIP	4.7K	5%	1/16W	R873	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
						R874	1-216-841-11		47K	5%	1/16W
R808	1-216-829-11		4.7K	5%	1/16W	R875	1-216-829-11		4.7K	5%	1/16W
R809	1-216-835-11		15K	5%	1/16W	R876	1-216-841-11		47K	5%	1/16W
R810	1-216-833-11		10K	5%	1/16W	R877	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R811		METAL CHIP	4.7K	0.5%	1/16W	D.050		DEG GUED	4.77		4 /4
R813	1-216-857-11	RES-CHIP	1M	5%	1/16W	R878	1-216-821-11		1K	5%	1/16W
D011		A COURT OF THE	2 177	0.50	4 /4 6777	R879	1-216-821-11		1K	5%	1/16W
R814		METAL CHIP	2.4K	0.5%		R880	1-216-809-11		100	5%	1/16W
R815	1-216-830-11		5.6K	5%	1/16W	R881	1-216-809-11		100	5%	1/16W
R816	1-216-830-11		5.6K	5%	1/16W	R882	1-216-809-11	RES-CHIP	100	5%	1/16W
R817	1-216-845-11		100K	5%	1/16W	D002	1 217 922 11	DEC CHID	0.017	F0/	1/1 CW
R818	1-216-833-11	RES-CHIP	10K	5%	1/16W	R883	1-216-832-11		8.2K	5%	1/16W
D010	1 216 927 11	DEC CHID	2 217	50 /	1/1/337	R884	1-216-833-11		10K	5%	1/16W
R819	1-216-827-11		3.3K	5%	1/16W	R885	1-216-833-11		10K	5%	1/16W
R820	1-216-838-11		27K	5%	1/16W	R886	1-216-833-11		10K	5%	1/16W
R821	1-216-827-11		3.3K	5%	1/16W	R887	1-216-821-11	KES-CHIP	1K	5%	1/16W
R823 R824	1-216-835-11		15K 27K	5% 5%	1/16W	R888	1-216-849-11	DEC CHID	220K	5%	1/16W
K624	1-216-838-11	кез-спір	2/ K	3%	1/16W	R889	1-216-807-11		68	5%	1/16W 1/16W
R825	1-216-827-11	DEC CHID	3.3K	5%	1/16W	R890	1-216-807-11		68	5%	1/16W
R826	1-216-830-11		5.6K	5%	1/16W	R891	1-216-807-11		68	5%	1/16W
R828	1-216-830-11		470	5%	1/16W	R892	1-216-837-11		22K	5%	1/16W
R829	1-216-864-11		0	370	1/10**	K672	1-210-037-11	KLS-CIII	22IX	370	1/10**
R830	1-216-849-11		220K	5%	1/16W	R893	1-216-857-11	RES-CHIP	1M	5%	1/16W
R 030	1 210 047 11	KLD CIIII	22011	570	1/10**	R895	1-216-830-11		5.6K	5%	1/16W
R831	1-216-839-11	RES-CHIP	33K	5%	1/16W	R896	1-216-864-11		0	570	1/1011
R832	1-216-817-11		470	5%	1/16W	R897	1-216-821-11		1K	5%	1/16W
R833	1-216-839-11		33K	5%	1/16W	R898	1-216-805-11		47	5%	1/16W
R835	1-216-837-11		22K	5%	1/16W						
R836	1-216-864-11		0			R899	1-216-821-11	RES-CHIP	1K	5%	1/16W
R840	1-216-841-11	RES-CHIP	47K	5%	1/16W			< NETWORK RES	SISTOR >		
R841	1-216-839-11		33K	5%	1/16W						
R842	1-216-817-11		470	5%	1/16W	RB1		RES, CHIP NETW			
R843	1-216-829-11		4.7K	5%	1/16W	RB2		RES, CHIP NETW			
R844	1-216-825-11	RES-CHIP	2.2K	5%	1/16W	RB3		RES, CHIP NETW			
						RB4		RES, CHIP NETW			
R845	1-216-817-11		470	5%	1/16W	RB5	1-233-576-11	RES, CHIP NETW	ORK 100		
R848	1-216-836-11		18K	5%	1/16W	DF -	4 000 == - : :	DEG 011-	0 D FF :		
R849	1-216-836-11		18K	5%	1/16W	RB6	1-233-576-11	RES, CHIP NETW	ORK 100		
R850	1-216-830-11		5.6K	5%	1/16W			TIMED >			
R851	1-216-833-11	RES-CHIP	10K	5%	1/16W			<tuner></tuner>			
R852	1-216-833-11	RES-CHIP	10K	5%	1/16W	TU1	8-598-430-50	TUNER, FSS BTF-	FA401		
R854	1-216-838-11		27K	5%	1/16W	TU2		TUNER, FSS BTF-			
R855	1-216-825-11		2.2K	5%	1/16W	102	0 0 0 0 0 12 20	101(21,155 211	*******		
R856	1-216-829-11		4.7K	5%	1/16W			< VIBRATOR >			
R857	1-216-838-11		27K	5%	1/16W						
•						X1	1-577-110-11	VIBRATOR, CRYS	STAL		
R858	1-216-829-11	RES-CHIP	4.7K	5%	1/16W	X301		OSCILLATOR, CR			
R859		METAL CHIP	4.7K	0.5%		X302		VIBRATOR, SERA			
R860	1-249-389-11		4.7	5%	1/4W	X303		OSCILLATOR, CR			
R861	1-249-389-11		4.7	5%	1/4W	X304		VIBRATOR, SERA			
R862	1-216-839-11		33K	5%	1/16W						
						X305	1-781-282-11	VIBRATOR, CERA	AMIC		
R863	1-216-841-11	RES-CHIP	47K	5%	1/16W	X306	1-767-989-11	VIBRATOR, CERA	AMIC		
R864	1-216-839-11		33K	5%	1/16W	X307		VIBRATOR, CERA			
R865	1-218-708-11	METAL CHIP	4.7K	0.5%	1/16W	X701		VIBLATOR, CRYS			



REF. N	O. PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTION		J	REMARK
										-	
	* A-1348-038-A	A D BOARD, COMP	LETE			C8065	1-106-383-00	MYLAR	0.047UF	10%	200V
		*********	******			C8066	1-162-970-11	CERAMIC CHIP	0.01UF	10%	25V
	3-710-578-01	COVER, VOLUMI	E, 6 MOLD			C8067	1-104-665-11	ELECT	100UF	20%	25V
	4-382-854-11	SCREW (M3X10).	P, SW (+)			C8068	1-102-038-00	CERAMIC	0.001UF		500V
		SCREW +PSW 3X				C8069	1-162-970-11	CERAMIC CHIP	0.01UF	10%	25V
		< CAPACITOR >				C8070	1-126-964-11	ELECT	10UF	20%	50V
		(0.11.1011011)				C8071	1-126-964-11		10UF	20%	50V
C800	1 1-137-372-11	MYI AR	0.022UF	5%	50V	C8071	1-126-964-11		10UF	20%	50V
C800		CERAMIC CHIP	100PF	5%	50V	C8072		CERAMIC CHIP	0.01UF	10%	25V
C800		CERAMIC CHIP	100FF	5%	50V	C8073	1-102-970-11		100UF	20%	25 V 25 V
C800			220UF	20%	25V	C6074	1-104-003-11	ELECT	10001	2070	23 V
C800			1000UF		25 V 25 V	C9075	1 162 070 11	CERAMIC CHIP	0.0111E	1.00/	25V
C800	5 1-126-942-61	ELECI	1000CF	20%	23 V	C8075			0.01UF	10%	25 V 25 V
G000	1 100 040 01	EL EOT	1000115	200/	2517	C8076	1-128-551-11		22UF	20%	
C800			1000UF	20%	25V	C8077		CERAMIC CHIP	0.01UF	10%	25V
C800		CERAMIC CHIP	100PF	5%	50V	C8078		CERAMIC CHIP	0.001UF	5%	25V
C800		CERAMIC CHIP	100PF	5%	50V	C8079	1-126-964-11	ELECT	10UF	20%	50V
C800		CERAMIC CHIP	0.01UF	10%	25V						
C801	0 1-136-177-00	FILM	1UF	5%	50V	C8080	1-126-964-11	ELECT	10UF	20%	50V
						C8081	1-115-416-11	CERAMIC CHIP	0.001UF	5%	25V
C801	1 1-162-927-11	CERAMIC CHIP	100PF	5%	50V	C8082	1-165-176-11	CERAMIC CHIP	0.047UF	10%	16V
C801	2 1-162-970-11	CERAMIC CHIP	0.01UF	10%	25V	C8083	1-130-495-00	MYLAR	0.1UF	5%	50V
C801	3 1-162-927-11	CERAMIC CHIP	100PF	5%	50V	C8084	1-130-992-11	FILM	0.022UF	5%	50V
C801	4 1-104-665-11	ELECT	100UF	20%	25V						
C801	5 1-126-969-11	ELECT	220UF	20%	50V	C8085	1-162-924-11	CERAMIC CHIP	56PF	5%	50V
						C8086	1-162-970-11	CERAMIC CHIP	0.01UF	10%	25V
C801	6 1-104-665-11	ELECT	100UF	20%	25V	C8087	1-126-960-11		1UF	20%	50V
C801		CERAMIC CHIP	0.001UF	10%	50V	C8088	1-126-964-11		10UF	20%	50V
C801			10UF	20%	50V	C8089	1-107-444-11		100PF	10%	2KV
C802			0.1UF	10%	100V	20007	1 107 444 11	CLICITY	10011	1070	211 1
C802			0.022UF	5%	50V	C8090	1-126-960-11	EI ECT	1UF	20%	50V
C002	4 1-137-372-11	WILAK	0.02201	370	30 v	C8090	1-104-665-11		100UF	20%	25V
C802	5 1-126-968-11	ELECT	100UF	20%	50V	C8091	1-104-603-11		6800PF	3%	1.2KV
				20%	50V						
C802			100UF			C8093	1-107-648-91		100UF	20%	160V
C802			100UF	20%	50V	C8094	1-104-665-11	ELECT	100UF	20%	25V
C802			100UF	20%	50V	G0005	4 4 50 000 44	GED 13 HG GIVE	0.04775	100/	2511
C803	1 1-107-636-11	ELECT	10UF	20%	160V	C8095		CERAMIC CHIP	0.01UF	10%	25V
						C8096	1-136-684-51		0.0022UF	10%	100V
C803			100UF	20%	50V	C8097	1-162-131-11		220PF	10%	2KV
C803			100UF	20%	50V	C8098	1-162-131-11		220PF	10%	2KV
C803			100UF	20%	50V	C8099	1-115-416-11	CERAMIC CHIP	0.001UF	5%	25V
C803	7 1-126-968-11	ELECT	100UF	20%	50V						
C804	0 1-115-349-51	CERAMIC	0.01UF		2KV	C8100	1-126-961-11	ELECT	2.2UF	20%	50V
						C8102	1-102-038-00	CERAMIC	0.001UF		500V
C804	5 1-126-965-11	ELECT	22UF	20%	50V	C8103	1-126-964-11	ELECT	10UF	20%	50V
C804	6 1-126-965-11	ELECT	22UF	20%	50V	C8104	1-162-965-11	CERAMIC CHIP	0.0015UF	10%	50V
C804	7 1-162-974-11	CERAMIC CHIP	0.01UF		50V	C8105	1-107-826-11	CERAMIC CHIP	0.1UF	10%	16V
C804	8 1-126-965-11	ELECT	22UF	20%	50V						
C804		CERAMIC CHIP	0.01UF		50V	C8106	1-107-826-11	CERAMIC CHIP	0.1UF	10%	16V
						C8107	1-136-187-11		0.047UF	10%	250V
C805	0 1-126-965-11	ELECT	22UF	20%	50V	C8108	1-126-964-11	ELECT	10UF	20%	50V
C805		CERAMIC	0.001UF		500V	C8109		CERAMIC CHIP	56PF	5%	50V
C805			22UF	20%	50V	C8110	1-126-960-11		1UF	20%	50V
C805		CERAMIC CHIP	0.01UF		50V		/				
C805		CERAMIC CHIP	0.01UF		50V	C8111	1-126-960-11	ELECT	1UF	20%	50V
2003	. 1102 //=-11	CLICATION CITI	5.0101		50 ,	C8111		CERAMIC CHIP	470PF	5%	50V
C805	5 1-16/1-156-11	CERAMIC CHIP	0.1UF		25V	C8113	1-130-495-00		0.1UF	5%	50V
C805			10UF	20%	250V	C8113		ELECT(BLOCK) 1		20%	160V
				20%					0.1UF		
C805 C805			0.47UF 220PF		50V	C8115	1-10/-620-11	CERAMIC CHIP	U.IUF	10%	16V
		CERAMIC CHIP		5%	50V	C0116	1 107 926 11	CED AMIC CUIP	0.1115	100/	1617
C805	9 1-12/-/15-91	CERAMIC CHIP	0.22UF	10%	16V	C8116		CERAMIC CHIP	0.1UF	10%	16V
G00 -	0 1 104 227 ::	PI PCT	10017	2000	2517	C8117	1-102-038-00		0.001UF	1001	500V
C806			100UF	20%	25V	C8118	1-136-189-00		0.1UF	10%	250V
C806		CERAMIC CHIP	0.1UF	10%	16V	C8119		CERAMIC CHIP	0.1UF	4.0.	25
C806		CERAMIC CHIP	0.01UF	10%	25V	C8120	1-107-826-11	CERAMIC CHIP	0.1UF	10%	16V
C806		CERAMIC CHIP	0.1UF	10%	16V						
C806	4 1-107-636-11	ELECT	10UF	20%	160V	C8121	1-115-349-51		0.01UF		2KV
						C8122	1-126-934-11	ELECT	220UF	20%	16V



REE NO	PART NO.	DESCRIPTION			REMARK	REE NO	PART NO.	DESCRIPTION		REMARK
KLI. NO.	TAKT NO.	DESCRIPTION			KLWIAKK	KLI. NO.	TAKT NO.	DESCRIPTION		KLWAKK
C8123	1-107-444-11	CERAMIC	100PF	10%	2KV	D8013	8-719-921-88	RD5.1ESB2		
C8124	1-117-642-11		8200PF	3%	1.2KV	D8014	8-719-921-88			
C8125		CERAMIC CHIP	0.1UF	10%	16V	D8015	8-719-991-33			
C8126	1-106-357-00	MYLAR	0.0039UF	99%	200V	D8016	8-719-991-33	1SS133T-77		
C8127	1-126-942-61		1000UF	20%	25V	D8019	8-719-991-33			
C8129	1-137-150-11		0.01UF	5%	50V	D8020	8-719-991-33			
C8131	1-128-582-11		10UF	20%	100V	D8021		FMO-G5FMS		
C8132	1-126-942-61	ELECT	1000UF	20%	25V	D8022	8-719-991-33			
						D8023	8-719-991-33	1SS133T-77		
C8133	1-107-649-11	ELECT	2.2UF	20%	250V	D8024	8-719-921-88	RD15ES-B2		
C8135	1-109-961-11	FILM	0.75UF	5%	250V	D8025	8-719-991-33	1SS133T-77		
C8136	1-130-495-00	MYLAR	0.1UF	5%	50V	D8026	8-719-10*-89	RD5.6ESB2		
C8137	1-126-942-61	ELECT	1000UF	20%	25V	D8027	8-719-028-45	D2L20U		
C8138	1-162-964-11	CERAMIC CHIP	0.001UF	10%	50V					
						D8028	8-719-921-88	RD15ES-B2		
C8139	1-126-964-11	ELECT	10UF	20%	50V	D8029	8-719-028-45	D2L20U		
C8142	1-117-664-11	FILM	0.27UF	5%	250V	D8030	8-719-028-45	D2L20U		
C8143	1-126-960-11	ELECT	1UF	20%	50V	D8031	8-719-921-88	RD18ES-B2		
C8148	1-104-665-11	ELECT	100UF	20%	25V	D8032	8-719-302-43	EL1Z		
C8150	1-107-826-11	CERAMIC CHIP	0.1UF	10%	16V					
						D8033	8-719-028-72	RGP02-17EL-6433		
C8153	1-126-960-11	ELECT	1UF	20%	50V	D8034	6-500-004-01	DIODE ERD07-15	L	
						D8035	6-500-004-01	DIODE ERD07-15	L	
						D8036	8-719-921-88	RD15ES-B2		
		< CONNECTOR $>$				D8037	8-719-028-45	D2L20U		
		CONNECTOR, BO				D8038	8-719-302-43			
CN8003*	1-691-135-11	PIN, CONNECTOR	R (PC BOAI	RD) 4F)	D8039	8-719-028-72	RGP02-17EL-6433		
		CONNECTOR, BO				D8043	8-719-991-33			
		CONNECTOR, BO				D8045	8-719-908-03			
CN8006*	1-779-890-11	CONNECTOR, BO	ARD TO B	OARD	10P	D8046	8-719-991-33	1SS133T-77		
		PLUG, CONNECT				D8047	8-719-991-33	1SS133T-77		
		PLUG, CONNECT								
		PLUG, CONNECT						< FERRITE BEAD	>	
		PLUG, CONNECTO					4 440 007 04	EED D ION		
CN8011*	1-564-507-11	PLUG, CONNECT	OR 4P				1-410-397-21		1.1UH	
CN100124	1 564 507 11	DI LIC COMMECT	OD 4D				1-410-397-21		1.1UH	
		PLUG, CONNECTO PIN, CONNECTOR		DD) 0E	,		1-414-229-11		0UH	
		*	`	KD) 91	^		1-216-864-11		0	
		PIN, CONNECTOR PLUG, CONNECTOR				FB8005	1-469-869-21	FERRITE	0UH	
		PIN, CONNECTOR		DD) 4E	,	ED 9006	1-469-869-21	EEDDITE	0UH	
CNOUTO	1-360-069-11	FIN, CONNECTOR	(FC BOAI	XD) 4F		FB8008			0.45UH	
CN190103	: 1 590 690 11	PIN, CONNECTOR	DC DOAI	DD) 4E	,	FB8009			0.45UH	
		PIN, CONNECTOR					1-410-396-41		0.45UH	
		PIN, CONNECTOR	*	(LU) 4F			1-410-396-41		0.45UH	
		PLUG, CONNECTOR				1.00011	1-410-350-41	TERRITE	0.43011	
		PLUG, CONNECTO				FR8014	1-469-869-21	FERRITE	0UH	
C110023	1 304 307-11	TEG, COMMEN	U11 T1				1-469-869-21		0UH	
		< DIODE >					1-469-869-21		0UH	
		(DIODE)				FB8017			0UH	
D8001	8-719-109-98	RD5 6FSR2				FB8018			0UH	
D8001	8-719-110-53					1 20010	1 407 007 21	TERRITE	0011	
D8002		MTZJ-T-77-22B				FB8019	1-410-397-21	FERRITE	1.1UH	
D8003	8-719-908-03					FB8020			0UH	
D8005	8-719-991-33					FB8021			1.1UH	
_ 3000						FB8022			0.45UH	
D8006	8-719-991-33	1SS133T-77				FB8023	1-410-396-41		0.45UH	
D8007	8-719-991-33					- 25025	1 .10 070 FI			
D8008	8-719-991-33					FB8024	1-469-869-21	FERRITE	0UH	
D8009	8-719-991-33							_	-	
D8010	8-719-991-33							< IC >		
D8011	8-719-991-33	1SS133T-77				IC8001	8-749-019-08	IC STK392-560		
D8012	8-719-991-33	1SS133T-77				IC8002	8-749-019-08	IC STK392-560		
					'					

Les composants identifies par une trame et une marque \(\tilde{\Lambda}\) sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The components identified by shading and mark \triangle are critical for safety. Replace only with part number specified.

KP-43HT20/53HS20/53HS30/61HS20/61HS30 RM-Y908 RM-Y908 RM-Y908

D

REF. NO.	PART NO.	DESCRIPTION		REMARK	REF. NO.	PART NO.	DESCRIPTION			REMARK
100002	0.750.502.22	1 470045			00000	0.720.207.00	20 A 1250 W			
IC8003	8-759-593-33				Q8008	8-729-207-89				
IC8004		NJM78L12A			Q8009	8-729-207-82				
IC8005	8-759-585-82	BA9759F-E2			Q8010	8-729-422-27				
100000	0.750.700.07	NII 120002 1			Q8011	8-729-026-49	2SA1037AK-T146-	-R		
IC8006	8-759-700-07				00014	0.700.400.07	20D(01 A O			
IC8007	8-759-700-07				Q8014	8-729-422-27				
IC8008		BA9759F-E2			Q8015	8-729-422-27				
IC8009	8-759-803-42				Q8016	8-729-422-27	2SA1037AK-T146	D		
IC8012	8-759-701-01	NJM2904M			Q8019 Q8020			-K		
		<coil></coil>			Q8020	8-729-422-27	23D001A-Q			
		CCOIL >			Q8021	8-729-422-27	2SD601A-O			
L8001	1-412-533-21	INDUCTOR 4	7UH		Q8021 Q8022	8-729-422-27	•			
L8002			7UH		Q8022 Q8023		2SC2688(5)-LK			
L8003			OUH		Q8024		TRANSISTOR 2SO	C5681-YB		
L8004			7UH		Q8027		2SJ585LS-CC11			
L8005	1-412-533-21		7UH		Ç					
					Q8028	8-729-422-27	2SD601A-Q			
L8006	1-412-525-31	INDUCTOR 10	0UH		Q8029	8-729-422-27				
L8007			7UH		Q8030		2SA1037AK-T146-	-R		
L8008			7UH		Q8031	8-729-422-27				
L8009			0UH		Q8032	8-729-422-27				
L8010	1-414-187-11		7UH		-		-			
					Q8035	8-729-050-13	2SJ585LS-CC11			
L8011	1-412-525-31	INDUCTOR 10	0UH		Q8036	8-729-026-49	2SA1037AK-T146-	-R		
L8012	1-414-187-11		7UH		Q8037	8-729-422-27				
L8013	1-414-856-11	INDUCTOR 10	0UH		Q8038	8-729-038-10	TRANSISTOR 1M	B12-140-F1	53A	
L8014	1-414-189-31		00UH		Q8039	8-729-048-47	2SC2688(5)-LK			
L8015	1-414-189-31	INDUCTOR 10	00UH							
					Q8101	8-729-026-49	2SA1037AK-T146-	-R		
L8016			00UH				PEGIGEOR			
L8017	1-414-856-11		OUH				< RESISTOR >			
L8018			7UH		D0001	1 016 005 11	DEC CHID	0.017	E 01	1/1/337
L8019		COIL, HORIZONTAL			R8001	1-216-825-11		2.2K	5%	1/16W
L8020	1-412-323-31	INDUCTOR 10	0UH		R8002 R8003	1-216-809-11 1-216-809-11		100 100	5% 5%	1/16W 1/16W
L8021	1 406 650 11	INDUCTOR 10	0UH		R8004	1-216-809-11		100	5%	1/16W 1/16W
L8021 L8022			.2mmH		R8005		METAL OXIDE	10K	5%	1710 W
L8022			OUH		100003	1-213-073-11	WILIAL OXIDL	1014	370	1 **
L8024			OUH		R8007	1-216-809-11	RES-CHIP	100	5%	1/16W
L8025	1-414-856-11		OUH		R8008	1-216-809-11		100	5%	1/16W
20020	1 111 000 11	II DOOTOIL I	0011		R8009	1-216-809-11		100	5%	1/16W
L8026	1-414-856-11	INDUCTOR 10	0UH		R8010	1-260-131-11		470K	5%	1/2W
20020	1 111 000 11	II DOOTOIL I	0011		R8011	1-216-829-11		4.7K	5%	1/16W
		< NEON LAMP >			-					
					R8012	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
NL8001	1-517-778-21	LAMP, NEON			R8013	1-218-710-11	METAL CHIP	5.6K	0.5%	1/16W
					R8014	1-218-709-11	METAL CHIP	5.1K	0.5%	1/16W
		< IC LINK >			R8015	1-216-837-11	RES-CHIP	22K	5%	1/16W
					R8016	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
	1-533-595-31									
	<u>1-533-595-31</u>	. , -			R8017	1-216-829-11		4.7K	5%	1/16W
	1-533-595-31				R8018	1-216-821-11		1K	5%	1/16W
	1-533-595-31				R8019		METAL CHIP	6.8K		1/16W
PS80052	<u>1-533-595-31</u>	LINK, IC			R8020	1-216-829-11		4.7K	5%	1/16W
PG000C	1 522 505 01	I INIZ IO			R8021	1-216-833-11	KES-CHIP	10K	5%	1/16W
	<u>1</u> 1-533-595-31 1-533-595-31				D0022	1 216 920 11	DEC CHID	33V	50%	1/16W
P3800/Z	:_1-333-393-31	LINK, IC			R8022 R8023	1-216-839-11 1-216-833-11		33K 10K	5% 5%	1/16W 1/16W
		<transistor></transistor>			R8023	1-216-833-11		10K 10K	5% 5%	1/16W 1/16W
		\ IKANSISTOR >			R8025	1-216-829-11		4.7K	5%	1/16W
Q8001	8-729-422-27	2SD601A-O			R8026	1-216-829-11		4.7K 4.7K	5%	1/16W 1/16W
Q8001		2SC4634LS-CB11			110020	1 210 027 11			2 /0	1,1011
Q8003		2SA1037AK-T146-R			R8029	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
Q8004		2SA1037AK-T146-R			R8030		METAL OXIDE	68K	5%	2W
Q8005		2SA1037AK-T146-R			R8031	1-216-829-11		4.7K	5%	1/16W
-					R8032	1-216-821-11		1K	5%	1/16W
Q8007	8-729-046-80	2SC4634LS-CB11			R8033	1-216-833-11		10K	5%	1/16W
				1						



REF. NO.	PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTION			REMARK
R8034	1-216-833-11		10K	5%	1/16W	R8095	1-216-801-11		22	5%	1/16W
R8035		METAL CHIP	1.2K	0.5%	1/16W	R8096	1-216-801-11		22	5%	1/16W
R8036	1-214-800-11		2.2	1%	1/2W	R8097	1-214-808-11	METAL	4.7	1%	1/2W
R8037		METAL OXIDE	68K	5% 5%	2W	D0000	1 214 000 11	METAI	4.7	10/	1/2337
R8038	1-216-809-11	KES-CHIP	100	5%	1/16W	R8098 R8099	1-214-808-11	METAL METAL CHIP	4.7 100K	1% 0.5%	1/2W 1/16W
R8039	1-214-800-11	METAI	2.2	1%	1/2W	R8100		METAL CHIP METAL OXIDE	100K 120	0.5% 5%	1/16W 3W
R8040		METAL OXIDE	2.2	1% 5%	3W	R8101		METAL OXIDE	120	5%	3W
R8041		METAL CHIP	5.1K	0.5%	1/16W	R8102	1-216-833-11		120 10K	5%	1/16W
R8042	1-216-826-11		2.7K	5%	1/16W	110102	1 210 000 11			2,0	2, 2011
R8043		METAL CHIP	4.7K	0.5%	1/16W	R8103	1-216-816-11	RES-CHIP	390	5%	1/16W
						R8104	1-216-832-11		8.2K	5%	1/16W
R8044	1-218-712-11	METAL CHIP	6.8K	0.5%	1/16W	R8105	1-214-808-11		4.7	1%	1/2W
R8045	1-214-808-11	METAL	4.7	1%	1/2W	R8106	1-214-808-11	METAL	4.7	1%	1/2W
R8046	1-214-808-11	METAL	4.7	1%	1/2W	R8107	1-216-833-11	RES-CHIP	10K	5%	1/16W
R8047		METAL OXIDE	10	5%	1W						
R8048	1-414-189-31	INDUCTOR	100UH			R8108	1-216-821-11		1K	5%	1/16W
D00:		n marcare -	4007			R8109	1-216-814-11		270	5%	1/16W
R8049	1-414-189-31		100UH	50'	1/1/337	R8110	1-249-427-11		6.8K	5%	1/4W
R8050	1-216-833-11		10K	5%	1/16W	R8111	1-216-819-11		680	5%	1/16W
R8051	1-214-808-11		4.7	1%	1/2W	R8112	1-216-824-11	KES-CHIP	1.8K	5%	1/16W
R8053 R8055	1-214-808-11		4.7 220K	1% 0.5%	1/2W 1/16W	R8113	1 216 475 11	METAL OXIDE	120	5%	3W
KOUSS	1-210-748-11	METAL CHIP	ZZUK	0.5%	1/10W	R8113 R8114		METAL OXIDE	120	5% 5%	3W 3W
R8056	1-216-829-11	RES-CHIP	4.7K	5%	1/16W	R8115		METAL OXIDE	120	5%	3W
R8057	1-216-829-11		4.7K 4.7K	5%	1/16W	R8116		METAL OXIDE	120	5%	3W
R8058	1-216-829-11		100	5%	1/16W	R8117	1-216-833-11		120 10K	5%	1/16W
R8059	1-214-808-11		4.7	1%	1/2W	1.0117	1 210 000 11			2,0	2, 2011
R8060	1-214-808-11		4.7	1%	1/2W	R8118	1-216-833-11	RES-CHIP	10K	5%	1/16W
				-		R8119	1-216-833-11		10K	5%	1/16W
R8061	1-216-390-11	METAL OXIDE	1.2	5%	3W	R8120	1-216-833-11		10K	5%	1/16W
R8062	1-260-107-11	CARBON	4.7K	5%	1/2W	R8121	1-216-809-11	RES-CHIP	100	5%	1/16W
R8063	1-214-808-11	METAL	4.7	1%	1/2W	R8123	1-216-821-11	RES-CHIP	1K	5%	1/16W
R8064	1-214-808-11		4.7	1%	1/2W						
R8065	1-260-328-11	CARBON	1K	5%	1/2W	R8124	1-249-377-11		0.47	5%	1/4W
						R8125	1-216-816-11		390	5%	1/16W
R8066	1-214-808-11		4.7	1%	1/2W	R8126	1-216-823-11		1.5K	5%	1/16W
R8067	1-214-808-11		4.7	1%	1/2W	R8128	1-216-833-11		10K	5%	1/16W
R8068	1-216-809-11		100	5%	1/16W	R8129	1-216-825-11	KES-CHIP	2.2K	5%	1/16W
R8069 R8070	1-214-808-11 1-214-808-11		4.7 4.7	1% 1%	1/2W	DQ120	1-216-825-11	DEC CHID	2.2K	5%	1/16W
N0U/U	1-214-008-11	IVIE IAL	4.7	1 7/0	1/2W	R8130 R8131	1-216-825-11		2.2K 10K	5% 5%	1/16W 1/16W
R8071	1-215-381-00	METAI	22	1%	1/4W	R8132	1-216-833-11		10K 10K	5%	1/16W 1/16W
R8073	1-213-381-00		4.7	1% 1%	1/4W 1/2W	R8133		METAL OXIDE	10K 12K	5%	3W
R8075	1-214-808-11		4.7	1%	1/2W	10133	1 210 407 11	LITTL OMDL	1211	2,0	511
R8076	1-216-829-11		4.7K	5%	1/16W	R8134	1-215-873-00	METAL OXIDE	4.7K	5%	1W
R8077	1-216-829-11		4.7K	5%	1/16W	R8135		METAL OXIDE	12K	5%	3W
						R8136	1-216-833-11		10K	5%	1/16W
R8078	1-214-808-11	METAL	4.7	1%	1/2W	R8137	1-218-740-11	METAL CHIP	100K	0.5%	1/16W
R8079	1-214-808-11		4.7	1%	1/2W	R8138	1-216-833-11	RES-CHIP	10K	5%	1/16W
R8080		METAL OXIDE	2.2	5%	1W						
R8081	1-214-808-11		4.7	1%	1/2W	R8139	1-216-827-11		3.3K	5%	1/16W
R8082	1-214-808-11	METAL	4.7	1%	1/2W	R8140	1-216-833-11		10K	5%	1/16W
D0000	4.04.5.05.00	DEG 615-	477	= 0:	4 /4	R8141	1-216-827-11		3.3K	5%	1/16W
R8083	1-216-821-11		1K	5%	1/16W	R8142	1-216-833-11		10K	5%	1/16W
R8084	1-216-833-11		10K	5%	1/16W	R8143	1-218-/34-11	METAL CHIP	56K	0.5%	1/16W
R8085	1-214-808-11		4.7	1%	1/2W	D0144	1 216 200 11	DEC CHIP	100	50/	1/16W
R8086	1-214-808-11		4.7	1% 5%	1/2W	R8144	1-216-809-11		100 10K	5% 0.5%	1/16W
R8087	1-249-385-11	CARDUN	2.2	J%0	1/4W	R8145 R8146		METAL CHIP METAL CHIP	10K 10K	0.5%	1/16W 1/16W
R8088	1-249-385-11	CARBON	2.2	5%	1/4W	R8147		METAL CHIP	5.6K	0.5%	1/16W 1/16W
R8089	1-249-385-11		4.7	5% 1%	1/4W 1/2W	R8147 R8148	1-218-710-11		100K	5%	1/16W 1/16W
R8090	1-214-808-11		4.7	1%	1/2W 1/2W	10170	1 210-043-11	ILD CIII	1001	5/0	1/10**
R8091	1-214-808-11		4.7	1%	1/2W	R8149	1-215-905-11	METAL OXIDE	10	5%	3W
R8092	1-214-808-11		4.7	1%	1/2W	R8150		METAL CHIP	100K		1/16W
						R8151		METAL CHIP	1K	0.5%	1/16W
R8093	1-214-808-11	METAL	4.7	1%	1/2W	R8152		METAL CHIP	10K		1/16W
R8094	1-214-808-11	METAL	4.7	1%	1/2W	R8153	1-218-692-11	METAL CHIP	1K	0.5%	1/16W

Les composants identifies par une trame et une marque \triangle sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The components identified by shading and mark \triangle are critical for safety. Replace only with part number specified.

KP-43HT20/53HS20/53HS30/61HS20/61HS30 RM-Y908 RM-Y908 RM-Y908 RM-Y908 RM-Y908 • The components identified by in this manual have been carefully factory-selected for each set in order to

The components identified by

in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.





REF. NO.	PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTION		Ī	REMARK
R8154	1_218_728_11	METAL CHIP	33K	0.5%	1/16W	R8228	1-260-314-11	CARRON	68	5%	1/2W
R8155	1-215-469-00		100K	1%	1/4W	R8230		METAL CHIP	300K		1/2 W 1/16W
R8156	1-215-469-00		100K	1%	1/4W	10230	1-210-731-11	WILLIAL CITI	300IX	0.570	1/10**
R8157		METAL CHIP	82K		1/4W			< TRANSFORMER) <		
R8159	1-216-736-11		10K	5%	1/16W			< TRANSFORMER			
K0139	1-210-655-11	кез-спіг	1010	370	1/10 W	T8001	1 425 142 11	TRANSFORMER,	EEDDITE (DET)	
D0160	1 240 202 11	CADDON	10	50/	1 /4337			TRANSFORMER,			
R8160	1-249-393-11		10	5%	1/4W	T8002			,		
R8161	1-216-841-11		47K	5%	1/16W	T8003		TRANSFORMER,			
R8163	1-216-841-11		47K	5%	1/16W			TRANSFORMER,		(LOI)	
R8164		METAL CHIP	56K	0.5%	1/16W	18005 2	<u>1-453-285-21</u>	FBT ASSY, NX-40	06//X4P4		
R8165	1-249-425-11	CARBON	4.7K	5%	1/4W			THE DIMETOR			
								< THERMISTOR >			
R8167	1-414-189-31		100UH								
R8166		METAL CHIP	10K		1/16W	TH8001	1-800-193-00	THERMISTOR			
R8168	1-216-809-11		100	5%	1/16W						
R8169	1-216-841-11		47K	5%	1/16W			< VARIABLE RES	ISTOR >		
R8170	1-218-716-11	METAL CHIP	10K	0.5%	1/16W						
						▼ VR8001	1 1 1 - 225 - 628 - 9	1RES, VAR, ADJ,C	CERME 5K		
R8171	1-216-809-11		100	5%	1/16W	▼ VR8002	2/1-225-632-91	RES, VAR, ADJ, C	ERMET 10	00K	
R8172	1-249-405-11	CARBON	100	5%	1/4W						
R8173	1-216-841-11	RES-CHIP	47K	5%	1/16W						
R8174	1-249-425-11	CARBON	4.7K	5%	1/4W						
R8176	1-218-740-11	METAL CHIP	100K	0.5%	1/16W		* A-1316-566-A	G BOARD, COMP	LETE		
								******	****		
R8178	1-216-841-11	RES-CHIP	47K	5%	1/16W						
R8179	1-414-189-31	INDUCTOR	100UH				1-533-223-11	HOLDER, FUSE			
R8180	1-216-841-11	RES-CHIP	47K	5%	1/16W			COVER, CAPACIT	OR CAPT	YPE	
R8181	1-216-841-11	RES-CHIP	47K	5%	1/16W			SCREW (M3X10),		112	
R8182	1-218-748-11	RES-CHIP	220K	5%	1/16W		. 202 00 . 11	benery (memo),	1,2 (.)		
								< CAPACITOR >			
R8183	1-218-748-11	RES-CHIP	220K	5%	1/16W			Chinenon			
R8184	1-216-833-11		10K	5%	1/16W	C5001	1-164-645-11	CERAMIC	1000PF	10%	500V
R8187	1-216-833-11	RES-CHIP	10K	5%	1/16W	C5002	1-164-645-11		1000FF	10%	500V
R8189	1-249-377-11	CARBON	0.47	5%	1/4W	C5002	1-104-665-11		100UF	20%	25V
R8190	1-215-431-00		2.7K	1%	1/4W	C5007	1-164-645-11		1000F	10%	500V
						C5007	1-164-645-11		1000FF	10%	500V
R8191	1-215-429-00	METAL.	2.2K	1%	1/4W	C3008	1-104-043-11	CERAMIC	1000FT	10%	300 V
R8192	1-215-449-00		15K	1%	1/4W	C5009	1-126-953-11	EI ECT	2200UF	20%	35V
R8193	1-215-449-00		15K	1%	1/4W		1-126-953-11		2200UF		35 V
R8194	1-215-449-00		15K	1%	1/4W	C5010				20%	
R8195	1-215-449-00		15K	1%	1/4W	C5011	1-164-645-11		1000PF	10%	500V
K6175	1-213-447-00	WILIAL	1310	1 /0	1/ - * * *	C5012	1-164-645-11		1000PF	10%	500V
R8196	1-249-425-11	CAPRON	4.7K	5%	1/4W	C5015	1-115-758-11	ELECT	470UF	20%	16V
R8197	1-216-809-11		100	5%	1/4 W 1/16W	G5016	1 126 0 12 61	DI DOM	100011	200/	0517
R8198	1-216-833-11		10K	5%	1/16W	C5016	1-126-942-61		1000UF	20%	25V
	1-249-397-11					C5017	1-126-942-61		1000UF	20%	25V
R8201			22	5%	1/4W	C5018	1-126-952-11		1000UF	20%	35V
R8202	1-260-092-11	CARBON	270	5%	1/2W	C5019	1-126-952-11		1000UF	20%	35V
D0202	1 240 277 11	CADDON	0.47	50/	1 // 137	C5020	1-110-626-11	ELECT	330UF	20%	160V
R8203	1-249-377-11		0.47	5% 5%	1/4W						
R8205	1-249-377-11		0.47	5%	1/4W	C5021	1-115-771-51		0.0047F	20%	16V
R8206	1-249-377-11		0.47	5%	1/4W	C5022	1-126-947-11		47UF	20%	25V
R8208	1-260-288-11		0.47	5%	1/2W	C5024	1-126-947-11	ELECT	47UF	20%	25V
R8209	1-216-833-11	RES-CHIP	10K	5%	1/16W	C5025	1-126-947-11	ELECT	47UF	20%	25V
						C5026	1-126-947-11	ELECT	47UF	20%	25V
R8210	1-216-809-11		100	5%	1/16W						
R8211		METAL OXIDE	15	5%	3W	C5027	1-126-951-11	ELECT	470UF	20%	35V
R8212		METAL OXIDE	22	5%	3W	C5028	1-126-951-11	ELECT	470UF	20%	35V
R8213	1-216-821-11		1K	5%	1/16W	C5029	1-107-639-11	ELECT	47UF	20%	160V
R8216	1-216-833-11	RES-CHIP	10K	5%	1/16W	C5030	1-126-947-11	ELECT	47UF	20%	25V
						C5031	1-126-768-11		2200UF	20%	16V
R8217	1-216-821-11	RES-CHIP	1K	5%	1/16W						
R8218	1-260-123-11	CARBON	100K	5%	1/2W	C5038	1-126-947-11	ELECT	47UF	20%	25V
R8219	1-249-377-11	CARBON	0.47	5%	1/4W	C5039	1-126-947-11		47UF	20%	25V
R8220	1-216-821-11	RES-CHIP	1K	5%	1/16W	C5040		CERAMIC CHIP	0.1UF	10%	16V
R8223	1-218-748-11	METAL CHIP	220K	0.5%	1/16W	C5041	1-126-767-11		1000UF	20%	16V
						C5042	1-126-963-11		4.7UF	20%	50V
R8224	1-260-127-11	CARBON	220K	5%	1/2W			- -		0	
R8225	1-260-292-11	CARBON	1	5%	1/2W	C5043	1-126-935-11	ELECT	470UF	20%	16V
									-		



REF. NO.	PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTION		REMARK
C5047	1-162-970-11	CERAMIC CHIP	0.01UF	10%	16V	D5013	8-719-069-56	UDZSTE-176.2B		
C5049		CERAMIC CHIP	0.01UF	10%	25V	D5013	8-719-404-50			
C5050	1-128-554-11		330UF	20%	63V	D5014	8-719-404-50			
C5050	1-126-961-11		2.2UF	20%	50V	D3013	0-717-404-30	WIATTI-TA		
C3031	1-120-901-11	ELECT	2.201	2070	30 V	D5016	8-719-083-44	DIODE FSQ05A04		
C5053	1-126-967-11	ELECT	47UF	20%	50V	D5010 D5017	8-719-073-25			
C5053	1-126-955-11		4700UF		35V	D5017		UDZ-TE-17-7.5B		
C5054 C5055			4700UF 100UF	20%	33 V 16V					
C6001	1-126-933-11 1-126-967-11		47UF	20% 20%	50V	D5019 D5020	8-719-404-50			
C6001	1-120-907-11					D3020	8-719-404-50	MAIII-IA		
C0002	1-104-000-11	ELECI	220UF	20%	25V	D5021	8-719-404-50	MA111 TV		
C6004	1-126-967-11	ELECT	47LIE	200/	50V					
C6004			47UF	20%		D5022	8-719-404-50			
C6008	1-117-228-11		2.2UF 2200PF	10%	450V 250V	D5023	8-719-404-50			
	1-119-888-51 1-119-888-51		2200PF 2200PF	20%	250V 250V	D5024 D5025	8-719-404-50 8-719-404-50			
			0.47UF	20%		D3023	6-719-404-30	MAIII-IA		
C0014 <u>21</u>	1-104-708-11	WIILAK	U.4/UF	20%	230 V	D5026	8-719-404-50	MA111 TV		
C6015	1-161-964-91	CEDAMIC	0.0047UF	2501/	,	D5026 D5031	8-719-404-50			
C6016	1-161-964-91		0.0047UF			D6001	8-719-404-50			
C6017		CERAMIC CHIP	0.001UF	10%	50V	D6002	8-719-948-45			
C6018		CERAMIC CHIP	0.01UF	200/	50V	D6003	8-719-069-87	DIZIOR		
C6019	1-126-968-11	ELECT	100UF	20%	50V	Dc004	0.710.404.50	MA 111 TEX		
0.000	1 106 062 11	EL EOT	4.71.11	200/	5011	D6004	8-719-404-50			
C6020	1-126-963-11		4.7UF	20%	50V	D6005	8-719-404-50			
C6021	1-126-964-11		10UF	20%	50V	D6006	8-719-063-70			
C6022	1-161-964-91		0.0047UF			D6007	8-719-022-XX			
C6023	1-161-964-91		0.0047UF			D6009	8-719-083-60	UDZSTE-174.7B		
C6025	1-136-479-11	FILM	0.001UF	2%	50V	DC011	0.710.404.50	MAIII TW		
C6020	1 126 165 00	EHM	0.1115	50/	50V	D6011	8-719-404-50	WA111-1X UF4005PKG23		
C6029	1-136-165-00		0.1UF	5%		D6012				
C6030	1-126-947-11		47UF	20%	25V	D6019		UDZSTE-174.7B		
C6031	1-137-750-11		1500UF	20%	250V	D6023		ERC04-06SE		
C6032	1-137-750-11		1500UF	20%	250V	D6024		ERC04-06SE		
C6041	1-125-969-91	CERAMIC	680PF	10%	1KV	D6030	8-719-063-70	DINL20U		
	1 125 000 01	CEDAMIC	COODE	100/	11237			ELICE		
C6042	1-125-969-91		680PF	10%	1KV			< FUSE >		
C6042 C6043 <u></u>	1-104-706-11	MYLAR	0.22UF	20%	250V	EC001 Å	1 577 102 11			
C6042 C6043 <u>A</u> C6046	1-104-706-11 1-126-968-11	MYLAR ELECT	0.22UF 100UF	20% 20%	250V 50V	F6001 🕭	∆ 1-576-193-11			
C6042 C6043 <u></u>	1-104-706-11	MYLAR ELECT	0.22UF	20%	250V	F6001 ₫	∆ 1-576-193-11	FUSE		_
C6042 C6043 <u>A</u> C6046	1-104-706-11 1-126-968-11	MYLAR ELECT FILM	0.22UF 100UF	20% 20%	250V 50V	F6001 🛆	∆ 1-576-193-11		>	_
C6042 C6043 <u>A</u> C6046	1-104-706-11 1-126-968-11	MYLAR ELECT	0.22UF 100UF	20% 20%	250V 50V			FUSE < FERRITE BEAD		_
C6042 C6043 <u>A</u> C6046 C6047	1-104-706-11 1-126-968-11 1-135-998-21	MYLAR ELECT FILM < CONNECTOR >	0.22UF 100UF 56000PF	20% 20%	250V 50V	FB5001	1-410-396-41	FUSE < FERRITE BEAD FERRITE	0.45UH	_
C6042 C6043 \(\Delta\) C6046 C6047	1-104-706-11 1-126-968-11 1-135-998-21	MYLAR ELECT FILM < CONNECTOR > PLUG, CONNECT	0.22UF 100UF 56000PF	20% 20%	250V 50V	FB5001 FB5002	1-410-396-41 1-410-396-41	FUSE < FERRITE BEAD FERRITE FERRITE	0.45UH 0.45UH	_
C6042 C6043 \(\Delta\) C6046 C6047 CN50012	1-104-706-11 1-126-968-11 1-135-998-21 5 1-564-508-11 5 1-564-507-11	MYLAR ELECT FILM < CONNECTOR > PLUG, CONNECT PLUG, CONNECT	0.22UF 100UF 56000PF OR 5P OR 4P	20% 20%	250V 50V	FB5001 FB5002 FB5003	1-410-396-41 1-410-396-41 1-410-396-41	FUSE < FERRITE BEAD FERRITE FERRITE FERRITE FERRITE	0.45UH 0.45UH 0.45UH	_
C6042 C6043 \(\triangle \) C6046 C6047 CN5001° CN5002° CN5003°	1-104-706-11 1-126-968-11 1-135-998-21 1-135-998-21 1-564-508-11 1-564-507-11 1-564-510-11	MYLAR ELECT FILM < CONNECTOR > PLUG, CONNECT PLUG, CONNECT PLUG, CONNECT PLUG, CONNECT	0.22UF 100UF 56000PF OR 5P OR 4P OR 7P	20% 20% 3%	250V 50V 800V	FB5001 FB5002 FB5003 FB5004	1-410-396-41 1-410-396-41 1-410-396-41 1-410-396-41	FUSE < FERRITE BEAD FERRITE FERRITE FERRITE INDUCTOR	0.45UH 0.45UH 0.45UH 0.45UH	_
C6042 C6043 \(\triangle \) C6046 C6047 CN5001° CN5002° CN5003° CN5004°	1-104-706-11 1-126-968-11 1-135-998-21 1-135-998-21 1-564-508-11 1-564-507-11 1-564-510-11 1-766-177-11	MYLAR ELECT FILM < CONNECTOR > PLUG, CONNECT PLUG, CONNECT PLUG, CONNECT PLUG, CONNECT PIN, CONNECTOR	0.22UF 100UF 56000PF OR 5P OR 4P OR 7P	20% 20% 3%	250V 50V 800V	FB5001 FB5002 FB5003 FB5004	1-410-396-41 1-410-396-41 1-410-396-41	FUSE < FERRITE BEAD FERRITE FERRITE FERRITE INDUCTOR	0.45UH 0.45UH 0.45UH	_
C6042 C6043 \(\triangle \) C6046 C6047 CN5001° CN5002° CN5003° CN5004°	1-104-706-11 1-126-968-11 1-135-998-21 1-135-998-21 1-564-508-11 1-564-507-11 1-564-510-11 1-766-177-11	MYLAR ELECT FILM < CONNECTOR > PLUG, CONNECT PLUG, CONNECT PLUG, CONNECT PLUG, CONNECT	0.22UF 100UF 56000PF OR 5P OR 4P OR 7P	20% 20% 3%	250V 50V 800V	FB5001 FB5002 FB5003 FB5004 FB5005	1-410-396-41 1-410-396-41 1-410-396-41 1-410-396-41	FUSE < FERRITE BEAD FERRITE FERRITE FERRITE INDUCTOR FERRITE	0.45UH 0.45UH 0.45UH 0.45UH 0.45UH	
C6042 C6043 <u>A</u> C6046 C6047 CN5001 ³ CN5002 ³ CN5004 ³ CN5004 ⁵	1-104-706-11 1-126-968-11 1-135-998-21 1-135-998-21 1-564-508-11 1-564-507-11 1-564-510-11 1-695-915-11	MYLAR ELECT FILM < CONNECTOR > PLUG, CONNECT PLUG, CONNECT PLUG, CONNECT PLUG, CONNECT PIN, CONNECTO TAB (CONTACT)	0.22UF 100UF 56000PF OR 5P OR 4P OR 7P	20% 20% 3%	250V 50V 800V	FB5001 FB5002 FB5003 FB5004 FB5005	1-410-396-41 1-410-396-41 1-410-396-41 1-410-396-41 1-410-396-41	FUSE < FERRITE BEAD FERRITE FERRITE FERRITE INDUCTOR FERRITE FERRITE FERRITE	0.45UH 0.45UH 0.45UH 0.45UH 0.45UH	
C6042 C6043 <u>A</u> C6046 C6047 CN5002 CN5003 CN5004 CN5005	1-104-706-11 1-126-968-11 1-135-998-21 1-135-998-21 1-564-508-11 1-564-510-11 1-695-915-11 1-695-915-11	MYLAR ELECT FILM < CONNECTOR > PLUG, CONNECT PLUG, CONNECT PLUG, CONNECT PLUG, CONNECT TAB (CONTACT) TAB (CONTACT)	0.22UF 100UF 56000PF OR 5P OR 4P OR 7P	20% 20% 3%	250V 50V 800V	FB5001 FB5002 FB5003 FB5004 FB5005 FB5006 FB6001	1-410-396-41 1-410-396-41 1-410-396-41 1-410-396-41 1-410-396-41 1-410-396-41	FUSE < FERRITE BEAD FERRITE FERRITE FERRITE INDUCTOR FERRITE FERRITE FERRITE FERRITE FERRITE	0.45UH 0.45UH 0.45UH 0.45UH 0.45UH 0.45UH	
C6042 C6043 \(\text{\Delta} \) C6046 C6047 CN5001 CN5002 CN5003 CN5004 CN5005 CN5006 CN5006	1-104-706-11 1-126-968-11 1-135-998-21 1-135-998-21 1-564-508-11 1-564-507-11 1-564-510-11 1-766-177-11 1-695-915-11 1-695-915-11	MYLAR ELECT FILM < CONNECTOR > PLUG, CONNECT PLUG, CONNECT PLUG, CONNECT PIN, CONNECTO TAB (CONTACT) TAB (CONTACT) TAB (CONTACT)	0.22UF 100UF 56000PF OR 5P OR 4P OR 7P R (PC BOAL	20% 20% 3% RD) 9F	250V 50V 800V	FB5001 FB5002 FB5003 FB5004 FB5005 FB5006 FB6001 FB6004	1-410-396-41 1-410-396-41 1-410-396-41 1-410-396-41 1-410-396-41 1-410-396-41 1-469-869-21	FUSE < FERRITE BEAD FERRITE FERRITE FERRITE INDUCTOR FERRITE FERRITE FERRITE FERRITE FERRITE FERRITE	0.45UH 0.45UH 0.45UH 0.45UH 0.45UH 0.45UH 0.45UH 0.45UH	
C6042 C6043 \(\text{\Delta} \) C6046 C6047 CN5001 CN5002 CN5003 CN5004 CN5005 CN5006 CN5006	1-104-706-11 1-126-968-11 1-135-998-21 1-135-998-21 1-564-508-11 1-564-507-11 1-564-510-11 1-766-177-11 1-695-915-11 1-695-915-11	MYLAR ELECT FILM < CONNECTOR > PLUG, CONNECT PLUG, CONNECT PLUG, CONNECT PLUG, CONNECT TAB (CONTACT) TAB (CONTACT)	0.22UF 100UF 56000PF OR 5P OR 4P OR 7P R (PC BOAL	20% 20% 3% RD) 9F	250V 50V 800V	FB5001 FB5002 FB5003 FB5004 FB5005 FB5006 FB6001 FB6004 FB6005	1-410-396-41 1-410-396-41 1-410-396-41 1-410-396-41 1-410-396-41 1-410-396-41 1-469-869-21 1-469-869-21	FUSE < FERRITE BEAD FERRITE FERRITE FERRITE INDUCTOR FERRITE FERRITE FERRITE FERRITE FERRITE FERRITE FERRITE FERRITE	0.45UH 0.45UH 0.45UH 0.45UH 0.45UH 0.45UH 0.45UH 0UH	
C6042 C6043 \(\text{\Delta} \) C6046 C6047 CN5001 CN5002 CN5003 CN5004 CN5005 CN5006 CN5006	1-104-706-11 1-126-968-11 1-135-998-21 1-135-998-21 1-564-508-11 1-564-507-11 1-564-510-11 1-766-177-11 1-695-915-11 1-695-915-11	MYLAR ELECT FILM < CONNECTOR > PLUG, CONNECT PLUG, CONNECT PLUG, CONNECTO TAB (CONTACT) TAB (CONTACT) TAB (CONTACT) TAB (CONTACT) TAB (CONTACT) TAB (CONTACT)	0.22UF 100UF 56000PF OR 5P OR 4P OR 7P R (PC BOAL	20% 20% 3% RD) 9F	250V 50V 800V	FB5001 FB5002 FB5003 FB5004 FB5005 FB5006 FB6001 FB6004 FB6005	1-410-396-41 1-410-396-41 1-410-396-41 1-410-396-41 1-410-396-41 1-410-396-41 1-469-869-21	FUSE < FERRITE BEAD FERRITE FERRITE FERRITE INDUCTOR FERRITE FERRITE FERRITE FERRITE FERRITE FERRITE FERRITE FERRITE	0.45UH 0.45UH 0.45UH 0.45UH 0.45UH 0.45UH 0.45UH 0.45UH	
C6042 C6043 \(\text{\Delta} \) C6046 C6047 CN5001 CN5002 CN5003 CN5004 CN5005 CN5006 CN5006	1-104-706-11 1-126-968-11 1-135-998-21 1-135-998-21 1-564-508-11 1-564-507-11 1-564-510-11 1-766-177-11 1-695-915-11 1-695-915-11	MYLAR ELECT FILM < CONNECTOR > PLUG, CONNECT PLUG, CONNECT PLUG, CONNECT PIN, CONNECTO TAB (CONTACT) TAB (CONTACT) TAB (CONTACT)	0.22UF 100UF 56000PF OR 5P OR 4P OR 7P R (PC BOAL	20% 20% 3% RD) 9F	250V 50V 800V	FB5001 FB5002 FB5003 FB5004 FB5005 FB6001 FB6004 FB6005 FB6006	1-410-396-41 1-410-396-41 1-410-396-41 1-410-396-41 1-410-396-41 1-410-396-41 1-469-869-21 1-469-869-21 1-216-864-11	FUSE < FERRITE BEAD FERRITE FERRITE FERRITE INDUCTOR FERRITE FERRITE FERRITE FERRITE FERRITE FERRITE FERRITE FERRITE FORRITE FERRITE	0.45UH 0.45UH 0.45UH 0.45UH 0.45UH 0.45UH 0.45UH 0UH 0UH	
C6042 C6043 \(\text{\Delta} \) C6046 C6047 CN50012 CN50022 CN50033 CN50042 CN5005 CN5006 CN5007 CN5006	1-104-706-11 1-126-968-11 1-135-998-21 1-135-998-21 1-564-508-11 1-564-507-11 1-564-510-11 1-695-915-11 1-695-915-11 1-695-915-11 1-580-843-11	MYLAR ELECT FILM < CONNECTOR > PLUG, CONNECT PLUG, CONNECT PLUG, CONNECTOI TAB (CONTACT)	0.22UF 100UF 56000PF OR 5P OR 4P OR 7P R (PC BOAL	20% 20% 3% RD) 9F	250V 50V 800V	FB5001 FB5002 FB5003 FB5004 FB5005 FB6001 FB6004 FB6005 FB6006 FB6007	1-410-396-41 1-410-396-41 1-410-396-41 1-410-396-41 1-410-396-41 1-410-396-41 1-469-869-21 1-469-869-21 1-216-864-11	FUSE < FERRITE BEAD FERRITE FERRITE FERRITE INDUCTOR FERRITE FERRITE FERRITE FERRITE FERRITE FERRITE FERRITE SHORT SHORT	0.45UH 0.45UH 0.45UH 0.45UH 0.45UH 0.45UH 0.45UH 0.45UH 0UH 0UH	
C6042 C6043 \(\triangle \) C6046 C6047 CN50013 CN50023 CN50043 CN50045 CN5006 CN5007 CN5006 CN5007 CN6005	1-104-706-11 1-126-968-11 1-135-998-21 1-135-998-21 1-564-508-11 1-564-507-11 1-564-510-11 1-695-915-11 1-695-915-11 1-695-915-11 1-695-915-11 1-580-843-11	MYLAR ELECT FILM < CONNECTOR > PLUG, CONNECT PLUG, CONNECT PLUG, CONNECTO IN, CONNECTOI TAB (CONTACT) TAB (CONTACT) TAB (CONTACT) TAB (CONTACT) TAB (CONTACT) ONNECTOI < DIODE > DIODE UDZSTE-1	0.22UF 100UF 56000PF OR 5P OR 4P OR 7P R (PC BOAL	20% 20% 3% RD) 9F	250V 50V 800V	FB5001 FB5002 FB5003 FB5004 FB5005 FB6001 FB6004 FB6005 FB6006 FB6007 FB6007 FB6013	1-410-396-41 1-410-396-41 1-410-396-41 1-410-396-41 1-410-396-41 1-410-396-41 1-469-869-21 1-216-864-11 1-216-864-11 1-410-397-21	FUSE < FERRITE BEAD FERRITE FERRITE FERRITE INDUCTOR FERRITE FERRITE FERRITE FERRITE FERRITE FERRITE SHORT FERRITE	0.45UH 0.45UH 0.45UH 0.45UH 0.45UH 0.45UH 0.45UH 0UH 0UH 0 0	
C6042 C6043 \(\triangle \) C6046 C6047 CN50013 CN50023 CN50043 CN50045 CN5006 CN5007 CN6005	1-104-706-11 1-126-968-11 1-135-998-21 1-135-998-21 1-564-508-11 1-564-507-11 1-564-510-11 1-695-915-11 1-695-915-11 1-695-915-11 1-580-843-11 8-719-083-69 8-719-060-89	MYLAR ELECT FILM < CONNECTOR > PLUG, CONNECT PLUG, CONNECT PLUG, CONNECT PLUG, CONNECTO IN, CONNECTOI TAB (CONTACT) TAB (CONTACT) TAB (CONTACT) TAB (CONTACT) CONNECTOI < DIODE > DIODE UDZSTE-1 D4SBS6-F	0.22UF 100UF 56000PF OR 5P OR 4P OR 7P R (PC BOAL	20% 20% 3% RD) 9F	250V 50V 800V	FB5001 FB5002 FB5003 FB5004 FB5005 FB6001 FB6004 FB6005 FB6006 FB6007 FB6013 FB6014	1-410-396-41 1-410-396-41 1-410-396-41 1-410-396-41 1-410-396-41 1-410-396-41 1-469-869-21 1-216-864-11 1-216-864-11 1-410-397-21 1-410-397-21	FUSE < FERRITE BEAD FERRITE FERRITE FERRITE INDUCTOR FERRITE FERRITE FERRITE FERRITE FERRITE FERRITE SHORT SHORT FERRITE FERRITE FERRITE FERRITE FERRITE	0.45UH 0.45UH 0.45UH 0.45UH 0.45UH 0.45UH 0.45UH 0UH 0UH 0 0	
C6042 C6043 \(\triangle \) C6046 C6047 CN50013 CN50023 CN50043 CN50043 CN5006 CN5007 CN6005 D5001 D5001 D5002 D5003	1-104-706-11 1-126-968-11 1-135-998-21 1-135-998-21 1-564-508-11 1-564-507-11 1-564-510-11 1-695-915-11 1-695-915-11 1-695-915-11 1-580-843-11 8-719-083-69 8-719-060-89 8-719-060-89	MYLAR ELECT FILM < CONNECTOR > PLUG, CONNECT PLUG, CONNECT PLUG, CONNECT PLUG, CONNECT IN, CONNECTO TAB (CONTACT) TAB (CONTACT) TAB (CONTACT) TAB (CONTACT) TAB (CONTACT) TO DIODE > DIODE UDZSTE-1 D4SBS6-F D4SBS6-F	0.22UF 100UF 56000PF OR 5P OR 4P OR 7P R (PC BOAL	20% 20% 3% RD) 9F	250V 50V 800V	FB5001 FB5002 FB5003 FB5004 FB5005 FB6001 FB6004 FB6005 FB6006 FB6007 FB6013 FB6014 FB6015	1-410-396-41 1-410-396-41 1-410-396-41 1-410-396-41 1-410-396-41 1-410-396-41 1-469-869-21 1-216-864-11 1-216-864-11 1-410-397-21 1-410-397-21 1-410-397-21	FUSE < FERRITE BEAD FERRITE FERRITE FERRITE INDUCTOR FERRITE	0.45UH 0.45UH 0.45UH 0.45UH 0.45UH 0.45UH 0.45UH 0UH 0UH 0 0 1.1UH 1.1UH	
C6042 C6043 \(\text{\Delta} \) C6046 C6047 CN5001 CN5002 CN5003 CN5004 CN5005 CN5006 CN5007 CN6005 D5001 D5002 D5003 D5004	1-104-706-11 1-126-968-11 1-135-998-21 1-135-998-21 1-564-508-11 1-564-507-11 1-564-510-11 1-695-915-11 1-695-915-11 1-695-915-11 1-695-915-11 1-580-843-11 8-719-083-69 8-719-060-89 8-719-060-89 8-719-083-45	MYLAR ELECT FILM < CONNECTOR > PLUG, CONNECT PLUG, CONNECT PLUG, CONNECT PLUG, CONNECT PIN, CONNECTO TAB (CONTACT) TAB (CONTACT) TAB (CONTACT) TAB (CONTACT) TAB (CONTACT) TOUR CONNECTOR CONNECTOR DIODE UDZSTE-10 D4SBS6-F D4SBS6-F D4SBS6-F D1ODE 31DF4N-F	0.22UF 100UF 56000PF OR 5P OR 4P OR 7P R (PC BOAL	20% 20% 3% RD) 9F	250V 50V 800V	FB5001 FB5002 FB5003 FB5004 FB5005 FB6001 FB6004 FB6005 FB6006 FB6007 FB6013 FB6014 FB6015	1-410-396-41 1-410-396-41 1-410-396-41 1-410-396-41 1-410-396-41 1-410-396-41 1-469-869-21 1-216-864-11 1-216-864-11 1-410-397-21 1-410-397-21	FUSE < FERRITE BEAD FERRITE FERRITE FERRITE INDUCTOR FERRITE	0.45UH 0.45UH 0.45UH 0.45UH 0.45UH 0.45UH 0.45UH 0UH 0UH 0 0	
C6042 C6043 \(\text{\Delta} \) C6046 C6047 CN50013 CN50023 CN50043 CN50045 CN5006 CN5007 CN6005	1-104-706-11 1-126-968-11 1-135-998-21 1-135-998-21 1-564-508-11 1-564-507-11 1-564-510-11 1-695-915-11 1-695-915-11 1-695-915-11 1-695-915-11 1-580-843-11 8-719-083-69 8-719-060-89 8-719-060-89 8-719-083-45	MYLAR ELECT FILM < CONNECTOR > PLUG, CONNECT PLUG, CONNECT PLUG, CONNECT PLUG, CONNECT IN, CONNECTO TAB (CONTACT) TAB (CONTACT) TAB (CONTACT) TAB (CONTACT) TAB (CONTACT) TO DIODE > DIODE UDZSTE-1 D4SBS6-F D4SBS6-F	0.22UF 100UF 56000PF OR 5P OR 4P OR 7P R (PC BOAL	20% 20% 3% RD) 9F	250V 50V 800V	FB5001 FB5002 FB5003 FB5004 FB5005 FB6001 FB6004 FB6005 FB6006 FB6007 FB6013 FB6014 FB6015	1-410-396-41 1-410-396-41 1-410-396-41 1-410-396-41 1-410-396-41 1-410-396-41 1-469-869-21 1-216-864-11 1-216-864-11 1-410-397-21 1-410-397-21 1-410-397-21	FUSE < FERRITE BEAD FERRITE FERRITE FERRITE INDUCTOR FERRITE	0.45UH 0.45UH 0.45UH 0.45UH 0.45UH 0.45UH 0.45UH 0UH 0UH 0 0 1.1UH 1.1UH	
C6042 C6043 \(\text{\Delta} \) C6046 C6047 CN5001\(\text{CN5002} \) CN5004\(\text{CN5005} \) CN5006 CN5007 CN6005 D5001 D5002 D5003 D5004 D5005	1-104-706-11 1-126-968-11 1-135-998-21 1-135-998-21 1-564-508-11 1-564-507-11 1-564-510-11 1-695-915-11 1-695-915-11 1-695-915-11 1-580-843-11 8-719-083-69 8-719-060-89 8-719-060-89 8-719-083-45 8-719-083-45	MYLAR ELECT FILM < CONNECTOR > PLUG, CONNECT PLUG, CONNECT PLUG, CONNECT PLUG, CONNECT PIN, CONNECTO TAB (CONTACT) TAB (CONTACT) TAB (CONTACT) TAB (CONTACT) TONNECTOR < DIODE > DIODE UDZSTE-1 D4SBS6-F D4SBS6-F D4SBS6-F DIODE 31DF4N-F DIODE 31DF4N-F DIODE 31DF4N-F	0.22UF 100UF 56000PF OR 5P OR 4P OR 7P R (PC BOAL	20% 20% 3% RD) 9F	250V 50V 800V	FB5001 FB5002 FB5003 FB5004 FB5005 FB6001 FB6004 FB6005 FB6006 FB6007 FB6013 FB6014 FB6015	1-410-396-41 1-410-396-41 1-410-396-41 1-410-396-41 1-410-396-41 1-410-396-41 1-469-869-21 1-216-864-11 1-216-864-11 1-410-397-21 1-410-397-21 1-410-397-21	FUSE < FERRITE BEAD FERRITE FERRITE FERRITE INDUCTOR FERRITE	0.45UH 0.45UH 0.45UH 0.45UH 0.45UH 0.45UH 0.45UH 0UH 0UH 0 0 1.1UH 1.1UH	
C6042 C6043 \(\triangle \) C6046 C6047 CN50012 CN50022 CN5003 CN5004 CN5007 CN5007 CN6005 D5001 D5002 D5003 D5004 D5002 D5003 D5004 D5005	1-104-706-11 1-126-968-11 1-135-998-21 1-135-998-21 1-1564-508-11 1-1564-510-11 1-1564-510-11 1-1564-510-11 1-158	MYLAR ELECT FILM < CONNECTOR > PLUG, CONNECT PLUG, CONNECT PLUG, CONNECT PLUG, CONNECT TAB (CONTACT) TOUDE > DIODE JIDFAN-F DIODE 31DFAN-F TI0P04Q	0.22UF 100UF 56000PF OR 5P OR 4P OR 7P R (PC BOAL	20% 20% 3% RD) 9F	250V 50V 800V	FB5001 FB5002 FB5003 FB5004 FB5005 FB5006 FB6001 FB6004 FB6005 FB6006 FB6007 FB6013 FB6014 FB6015 FB6016	1-410-396-41 1-410-396-41 1-410-396-41 1-410-396-41 1-410-396-41 1-469-869-21 1-469-869-21 1-216-864-11 1-410-397-21 1-410-397-21 1-410-397-21	FUSE < FERRITE BEAD FERRITE FERRITE FERRITE INDUCTOR FERRITE FERRITE FERRITE FERRITE FERRITE SHORT SHORT FERRITE < IC >	0.45UH 0.45UH 0.45UH 0.45UH 0.45UH 0.45UH 0.45UH 0UH 0UH 0 0 1.1UH 1.1UH	
C6042 C6043 \(\triangle \) C6046 C6047 CN5001 CN5002 CN5003 CN5004 CN5005 CN5006 CN5007 CN6005 D5001 D5002 D5003 D5004 D5005 D5006 D5007	1-104-706-11 1-126-968-11 1-135-998-21 1-135-998-21 1-1564-508-11 1-1564-507-11 1-1564-510-11 1-1564-510-11 1-1580-915-11 1-1580-843-11 1-1580-843-11 1-1580-843-11 1-1580-843-11 1-1580-843-11 1-1580-843-11 1-1580-843-11 1-1580-843-11 1-1580-843-11 1-1580-843-11 1-1580-843-11 1-1580-843-11 1-1580-843-11	MYLAR ELECT FILM < CONNECTOR > PLUG, CONNECT PLUG, CONNECT PLUG, CONNECT PLUG, CONNECT PLUG, CONNECT PIN, CONNECTO TAB (CONTACT) TO DIODE > DIODE UDZSTE-1 D4SBS6-F D4SBS6-F D4SBS6-F D1ODE 31DF4N-F T10P04Q MA111-TX	0.22UF 100UF 56000PF OR 5P OR 4P OR 7P R (PC BOAL	20% 20% 3% RD) 9F	250V 50V 800V	FB5001 FB5002 FB5003 FB5004 FB5005 FB6001 FB6004 FB6005 FB6006 FB6007 FB6013 FB6014 FB6015	1-410-396-41 1-410-396-41 1-410-396-41 1-410-396-41 1-410-396-41 1-410-396-41 1-410-396-41 1-469-869-21 1-469-869-21 1-216-864-11 1-216-864-11 1-410-397-21 1-410-397-21 1-410-397-21 1-410-397-21	FUSE < FERRITE BEAD FERRITE FERRITE FERRITE INDUCTOR FERRITE FORMAT < IC > DM-58	0.45UH 0.45UH 0.45UH 0.45UH 0.45UH 0.45UH 0.45UH 0UH 0UH 0 0 1.1UH 1.1UH	
C6042 C6043 \(\text{\Delta} \) C6046 C6047 CN5001 CN5002 CN5003 CN5004 CN5005 CN5006 CN5007 CN6005 D5001 D5002 D5003 D5004 D5005 D5006 D5007 D5008	1-104-706-11 1-126-968-11 1-135-998-21 1-135-998-21 1-564-508-11 1-564-507-11 1-564-510-11 1-695-915-11 1-695-915-11 1-695-915-11 1-695-915-11 1-580-843-11 8-719-083-69 8-719-060-89 8-719-083-45 8-719-083-45 8-719-083-45 8-719-052-37 8-719-404-50 8-719-028-45	MYLAR ELECT FILM < CONNECTOR > PLUG, CONNECT PLUG, CONNECT PLUG, CONNECT PLUG, CONNECT PLUG, CONNECT PIN, CONNECTO TAB (CONTACT) TO BOT TAB TO	0.22UF 100UF 56000PF OR 5P OR 4P OR 7P R (PC BOAL	20% 20% 3% RD) 9F	250V 50V 800V	FB5001 FB5002 FB5003 FB5004 FB5005 FB5006 FB6001 FB6005 FB6007 FB6013 FB6014 FB6015 FB6016	1-410-396-41 1-410-396-41 1-410-396-41 1-410-396-41 1-410-396-41 1-410-396-41 1-410-396-41 1-469-869-21 1-469-869-21 1-216-864-11 1-216-864-11 1-410-397-21 1-410-397-21 1-410-397-21 1-410-397-21 8-749-012-13 8-759-103-93	FUSE < FERRITE BEAD FERRITE FERRITE FERRITE INDUCTOR FERRITE FERRITE FERRITE FERRITE FERRITE FERRITE FERRITE FERRITE FERRITE SHORT FERRITE FERRITE FERRITE FERRITE FERRITE FERRITE FERRITE FOR ITE F	0.45UH 0.45UH 0.45UH 0.45UH 0.45UH 0.45UH 0.45UH 0UH 0UH 0 0 1.1UH 1.1UH	
C6042 C6043 \(\triangle \) C6046 C6047 CN5001 CN5002 CN5003 CN5004 CN5005 CN5006 CN5007 CN6005 D5001 D5002 D5003 D5004 D5005 D5006 D5007	1-104-706-11 1-126-968-11 1-135-998-21 1-135-998-21 1-1564-508-11 1-1564-507-11 1-1564-510-11 1-1564-510-11 1-1565-915-11 1-1580-915	MYLAR ELECT FILM < CONNECTOR > PLUG, CONNECT PLUG, CONNECT PLUG, CONNECT PLUG, CONNECTO TAB (CONTACT) FIODE 3 1 DF4N-F F10P04Q MA111-TX D2L20U D2L20U	0.22UF 100UF 56000PF OR 5P OR 4P OR 7P R (PC BOAL	20% 20% 3% RD) 9F	250V 50V 800V	FB5001 FB5002 FB5003 FB5004 FB5005 FB5006 FB6001 FB6004 FB6005 FB6007 FB6013 FB6014 FB6015 FB6016	1-410-396-41 1-410-396-41 1-410-396-41 1-410-396-41 1-410-396-41 1-410-396-41 1-410-396-41 1-469-869-21 1-216-864-11 1-216-864-11 1-410-397-21 1-410-397-21 1-410-397-21 8-749-012-13 8-759-103-93 8-759-701-84	FUSE < FERRITE BEAD FERRITE FERRITE FERRITE INDUCTOR FERRITE FORT	0.45UH 0.45UH 0.45UH 0.45UH 0.45UH 0.45UH 0.45UH 0UH 0UH 0 0 1.1UH 1.1UH	
C6042 C6043 \(\text{\Delta} \) C6046 C6047 CN5001 CN5002 CN5003 CN5004 CN5005 CN5006 CN5007 CN6005 D5001 D5002 D5003 D5004 D5005 D5006 D5007 D5008 D5009	1-104-706-11 1-126-968-11 1-135-998-21 1-135-998-21 1-564-508-11 1-564-507-11 1-564-510-11 1-695-915-11 1-695-915-11 1-695-915-11 1-695-915-11 1-580-843-11 8-719-083-69 8-719-060-89 8-719-083-45 8-719-083-45 8-719-083-45 8-719-052-37 8-719-404-50 8-719-028-45	MYLAR ELECT FILM < CONNECTOR > PLUG, CONNECT PLUG, CONNECT PLUG, CONNECT PLUG, CONNECTO TAB (CONTACT) FIODE 3 1 DF4N-F F10P04Q MA111-TX D2L20U D2L20U	0.22UF 100UF 56000PF OR 5P OR 4P OR 7P R (PC BOAL	20% 20% 3% RD) 9F	250V 50V 800V	FB5001 FB5002 FB5003 FB5004 FB5005 FB6001 FB6004 FB6005 FB6007 FB6013 FB6014 FB6015 FB6016	1-410-396-41 1-410-396-41 1-410-396-41 1-410-396-41 1-410-396-41 1-410-396-41 1-410-396-41 1-469-869-21 1-216-864-11 1-216-864-11 1-410-397-21 1-410-397-21 1-410-397-21 8-749-012-13 8-759-103-93 8-759-701-84 8-759-640-19	FUSE < FERRITE BEAD FERRITE FERRITE FERRITE INDUCTOR FERRITE FORT	0.45UH 0.45UH 0.45UH 0.45UH 0.45UH 0.45UH 0.45UH 0UH 0UH 0 0 1.1UH 1.1UH	
C6042 C6043 \(\text{\Delta} \) C6046 C6047 CN5001 CN5002 CN5003 CN5004 CN5005 CN5006 CN5007 CN6005 D5001 D5002 D5003 D5004 D5005 D5006 D5007 D5008 D5009	1-104-706-11 1-126-968-11 1-135-998-21 1-135-998-21 1-1564-508-11 1-1564-507-11 1-1564-510-11 1-1564-510-11 1-1565-915-11 1-1580-915	MYLAR ELECT FILM < CONNECTOR > PLUG, CONNECT PLUG, CONNECT PLUG, CONNECT PLUG, CONNECT PLUG, CONNECT PIN, CONNECTO TAB (CONTACT) TAB (CONTAC	0.22UF 100UF 56000PF OR 5P OR 4P OR 7P R (PC BOAL	20% 20% 3% RD) 9F	250V 50V 800V	FB5001 FB5002 FB5003 FB5004 FB5005 FB6001 FB6004 FB6005 FB6007 FB6013 FB6014 FB6015 FB6016	1-410-396-41 1-410-396-41 1-410-396-41 1-410-396-41 1-410-396-41 1-410-396-41 1-410-396-41 1-469-869-21 1-216-864-11 1-216-864-11 1-410-397-21 1-410-397-21 1-410-397-21 8-749-012-13 8-759-103-93 8-759-701-84 8-759-640-19	FUSE < FERRITE BEAD FERRITE FERRITE FERRITE INDUCTOR FERRITE FORT	0.45UH 0.45UH 0.45UH 0.45UH 0.45UH 0.45UH 0.45UH 0UH 0UH 0 0 1.1UH 1.1UH	
C6042 C6043 \(\text{\Delta} \) C6046 C6047 CN50012 CN50022 CN50033 CN50043 CN5006 CN5007 CN6005 D5001 D5002 D5003 D5004 D5005 D5006 D5007 D5008 D5009 D5010	1-104-706-11 1-126-968-11 1-135-998-21 1-135-998-21 1-1564-508-11 1-1564-507-11 1-1564-510-11 1-1564-510-11 1-1580-915-11 1-1580-843	MYLAR ELECT FILM < CONNECTOR > PLUG, CONNECT PLUG, CONNECT PLUG, CONNECT PLUG, CONNECT PLUG, CONNECT PIN, CONNECTO TAB (CONTACT) TAB (CONTAC	0.22UF 100UF 56000PF OR 5P OR 4P OR 7P R (PC BOAL	20% 20% 3% RD) 9F	250V 50V 800V	FB5001 FB5002 FB5003 FB5004 FB5005 FB6001 FB6004 FB6005 FB6007 FB6013 FB6014 FB6015 FB6016	1-410-396-41 1-410-396-41 1-410-396-41 1-410-396-41 1-410-396-41 1-410-396-41 1-410-396-41 1-469-869-21 1-216-864-11 1-216-864-11 1-410-397-21 1-410-397-21 1-410-397-21 8-749-012-13 8-759-103-93 8-759-701-84 8-759-640-19	FUSE < FERRITE BEAD FERRITE FERRITE FERRITE INDUCTOR FERRITE FORT	0.45UH 0.45UH 0.45UH 0.45UH 0.45UH 0.45UH 0.45UH 0UH 0UH 0 0 1.1UH 1.1UH	

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The components identified by shading and mark \triangle are critical for safety. Replace only with part number specified.



REF. NO.	PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTION		<u> </u>	REMARK
IC5006 IC6003	8-759-450-47 8-759-670-30					R5016	1-216-833-11	RES-CHIP	10K	5%	1/16W
100005	0 737 070 30	WELSOOID				R5017	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
		< JUMPER RESIST	TOR >			R5018	1-216-821-11		1K	5%	1/16W
						R5019	1-216-857-11		1M	5%	1/16W
JR5002	1-216-864-11	SHORT	0			R5020	1-216-821-11		1K	5%	1/16W
JR5003	1-216-864-11		0			R5021	1-216-821-11		1K	5%	1/16W
JR5003	1-216-864-11		0			10021	1 210 021 11	TES CIII	111	570	1/1011
0110 00.	1 210 00.11	5110111				R5022	1-218-708-11	METAL CHIP	4.7K	0.5%	1/16W
		<coil></coil>				R5023		METAL CHIP	270K		1/16W
		(0012)				R5024		METAL CHIP	390		1/16W
L5001	1-412-523-41	INDUCTOR	6.8UH			R5025		METAL CHIP	1.6K		1/16W
L5002	1-412-523-41		6.8UH			R5026	1-216-833-11		10K	5%	1/16W
L5003	1-412-529-11		22UH							- / -	-,
L5004	1-412-531-31		33UH			R5027	1-216-821-11	RES-CHIP	1K	5%	1/16W
L5005	1-412-527-11		15UH			R5028	1-216-821-11		1K	5%	1/16W
25005	1 112 327 11	I (Decroit	15011			R5029	1-216-833-11		10K	5%	1/16W
L5006	1-412-533-21	INDLICTOR	47UH			R5030	1-216-833-11		10K	5%	1/16W
L5007	1-412-533-21		47UH			R5032	1-249-415-11		680	5%	1/4W
L5007	1-412-533-21		22UH			N3032	1-247-415-11	CARDON	000	370	1/7 **
L5009	1-412-529-11		22UH			R5034	1-216-833-11	RES_CHIP	10K	5%	1/16W
L5007	1-406-663-21		47UH			R5034	1-216-819-11		680	5%	1/16W
L3012	1-400-003-21	INDUCTOR	4/011			R5035	1-216-819-11		680	5%	1/16W
L5013	1-412-525-31	INDLICTOR	10UH			R5030	1-216-821-11		1K	5%	1/16W
L5013 L5014	1-412-323-31		47UH			R5037	1-216-821-11		1K 1K		
L5014 L5015	1-424-862-11		33UH			K3038	1-210-821-11	кез-спір	1K	5%	1/16W
L5015 L5016	1-424-862-11		47UH			D5020	1-216-864-11	CHODT	0		
						R5039				50/	1/1/337
L5017	1-412-537-31	INDUCTOR	100UH			R5040	1-216-833-11		10K	5%	1/16W
I 6001 Å	1 427 470 11	TD A NCEODMED	I INE EILT	TED		R5041		METAL OXIDE	330	5%	1W
		TRANSFORMER,				R5042	1-216-833-11		10K	5%	1/16W
		TRANSFORMER,		EK		R5043	1-216-821-11	RES-CHIP	1K	5%	1/16W
L6003	1-424-802-11	INDUCTOR	33UH			R5044	1-216-821-11	DEC CHID	1K	50/	1/1 6W
		DIJOTO COLIDI I	ED.							5%	1/16W
		< PHOTO COUPLI	EK >			R5045	1-216-832-11		8.2K	5%	1/16W
DII.6001	0.740.024.25	ONI2151 D				R5047	1-216-833-11		10K	5%	1/16W
	8-749-924-35					R6002	1-240-251-	CMT-MELF	6.8	5%	10W
PH60022	<u> 1</u> 8-749-924-35	ON31/1-R				R6003	1-260-328-11	CARBON	1K	5%	1/2W
		ICIDIZ.				D C004	1 216 929 11	DEG CIUD	4 717	50/	1/1/337
		< IC LINK >				R6004	1-216-829-11		4.7K	5%	1/16W
D05001	1 522 507 21	I DIV IC				R6006		METAL OXIDE	390	5%	1W
	1-533-597-31					R6007	1-216-823-11		1.5K	5%	1/16W
PS50022	<u>1-533-597-31</u>	LINK, IC				R6008	1-216-845-11		100K	5%	1/16W
		TD A NGIGTOD				R6015	1-219-776-11	CARBON	2.2M	10%	1/2W
		< TRANSISTOR >				D (02)	1 210 717 11	METAL CHID	0.117	0.50/	1 /1 (1)
0.5004	0.500.050.50	TTD 1 MATERIAN D AGE						METAL CHIP	9.1K		1/16W
Q5001		TRANSISTOR 2SI)1782K-T14	16-R		R6037	1-215-481-00		330K	1%	1/4W
Q5002	8-729-422-27	•				R6038	1-215-481-00		330K	1%	1/4W
Q5003		2SA1037AK-T146-	-K			R6039	1-216-851-11		330K	5%	1/16W
Q5004	8-729-422-27					R6040	1-215-481-00	METAL	330K	1%	1/4W
Q5005	8-729-027-23	DTA114EKA-T146)			D (0.41	1 210 660 11	METAL CHID	100	0.50/	1 /1 (1)
05005	0.720.001.0=	000041117 00				R6041		METAL CHIP	100		1/16W
Q5006		2SC2411K-CQ				R6042		METAL CHIP	13K	0.5%	1/16W
Q5007		2SA1037AK-T146-	-R			R6045		METAL CHIP	200	0.5%	1/16W
Q6005		IRFIB7N50A				R6046	1-216-813-11		220	5%	1/16W
Q6006	8-729-052-32	IRFIB7N50A				R6047	1-216-813-11	RES-CHIP	220	5%	1/16W
		PEGIGEOR				D <0.50	1 240 417 11	CARRON	177	50/	1 /4337
		< RESISTOR >				R6050	1-249-417-11		1K	5%	1/4W
5.5005		DEG GIVE	- 077	~ ~ .	4 (4 6777	R6054	1-249-393-11		10	5%	1/4W
R5005	1-216-831-11		6.8K	5%	1/16W	R6056	1-260-131-11		470K	5%	1/2W
R5006	1-216-833-11		10K	5%	1/16W	R6057	1-260-131-11		470K	5%	1/2W
R5007	1-249-377-11		0.47	5%	1/4W	R6058	1-249-393-11	CARBON	10	5%	1/4W
R5010	1-247-903-00		1M	5%	1/4W	P -0	1.01 - 0	DEG CYTE	1077	=	1 /1
R5011	1-216-818-11	KES-CHIP	560	5%	1/16W	R6062	1-216-833-11		10K	5%	1/16W
D 5010	1 216 251 65	A COMPANIA CANADA	0.22	50/	211	R6063	1-216-833-11		10K	5%	1/16W
R5012		METAL OXIDE	0.22	5%	2W	R6064	1-202-933-61		0.1	10%	1/2W
R5013	1-216-833-11		10K	5%	1/16W	R6076		METAL OXIDE	0.1	5%	2W
R5014	1-216-829-11		4.7K	5%	1/16W	R6080	1-243-979-71	METAL OXIDE	0.1	5%	2W
R5015	1-218-/08-11	METAL CHIP	4.7K	0.5%	1/16W						

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KP-43HT20/53HS20/53HS30/61HS20/61HS30 RM-Y908 RM-Y908 RM-Y908



H4





REF. NO.	PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTION		Ī	REMARK
R6081	1-249-393-11	CARBON	10	5%	1/4W						
		< RELAY >					* A-1372-932-A	A H2 BOARD, COM			
		RELAY (AC POW RELAY (AC POW						< CONNECTOR >			
		< TRANSFORME	R >					PLUG, CONNECT PLUG, CONNECT			
		CONVERTER TR. TRANSFORMER,			PIT)			< RESISTOR >			
		< POSISTOR >				R9201	1-218-684-11	METAL CHIP	470	0.5%	1/16W
TH6002	1-804-475-21	POSISTOR				R9202 R9203	1-218-684-11	METAL CHIP	470 470	0.5%	1/16W 1/16W
		< VARISTOR >				R9204 R9205		METAL CHIP METAL CHIP	470 680		1/16W 1/16W
		VARISTOR TNR14			lololololololololololok	R9206 R9207		METAL CHIP METAL CHIP	680 1K		1/16W 1/16W
						R9207 R9208		METAL CHIP	1.5K		1/16W
						R9209		METAL CHIP	2.2K		1/16W
*	* A-1372-934- <i>A</i>	A H4 BOARD, COM				R9210	1-218-704-11	METAL CHIP	3.3K	0.5%	1/16W
		< CAPACITOR >				R9211	1-218-712-11	METAL CHIP	6.8K	0.5%	1/16W
C9401	1 107 926 11	CERAMIC CHIP	O THE	10%	16V			< SWITCH >			
C9401	1-107-820-11	CERAINIC CHIP	0.101	10%	10 V	S9201	1-572-198-11	SWITCH, KEYBO	ARD		
		< CONNECTOR >				S9202		SWITCH, KEYBO			
						S9203		SWITCH, KEYBO			
CN9401*	1-564-518-11	PLUG, CONNECT	OR 3P			S9204		SWITCH, KEYBO			
		<diode></diode>				S9205	1-572-198-11	SWITCH, KEYBO	ARD		
		(DIODE)				S9206	1-572-198-11	SWITCH, KEYBO	ARD		
D9401	8-719-921-883	38	RD5.6ESE	32		S9207	1-572-198-11	SWITCH, KEYBO	ARD		
D9402	8-719-921-88	38	RD5.6ESE	32		S9208		SWITCH, KEYBO			
						S9209		SWITCH, KEYBO			
		< IC >				S9210	1-572-198-11	SWITCH, KEYBO	ARD		
IC9401	8-719-066-43	GP1U28Y				S9211 S9212		SWITCH, KEYBO SWITCH, KEYBO			
		< RESISTOR >									
R9402	1-216-833-11 1-216-809-11		100	5%	1/16W 1/16W		* A-1377-001-A	A H1 BOARD, COM			
								< CONNECTOR >			
k	* A-1391-148- <i>A</i>	A S BOARD, COMP! ************				CN9101	* 1-564-508-11	PLUG, CONNECT	OR 5P		
		< CONNECTOR >						< DIODE >			
CN3001*	* 1-564-506-11	PLUG, CONNECT	OR 3P			D9101 D9102		SLR-325VCT31			
		< DIODE >				D9102	8-719-055-45	SLR-325VCT31			
D3001	8-719-109-89	RD5.6ESB2					4.04 - 01 - 1	< RESISTOR >	000	<u>.</u>	
		< SOLAR BATTER	RY>			R9103 R9104	1-216-813-11 1-216-813-11		220 220	5% 5%	1/16W 1/16W
S3002		BATTERY, SOLAF		alalalalalala	ininininininininininini-			< SWITCH >			
venenenenolololololololol	uninininininininininininininininininini	unterpretation de la contraction de la	ara a maria de la composició de la compo	-inininiolololo	interiorate de la composição de la compo	S9101		SWITCH, TACTIL			

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$\mathsf{KP\text{-}43HT20/53HS20/53HS30/61HS20/61HS30}_{\mathsf{RM}\text{-}9908} \mathsf{/61HS30/61HS30}_{\mathsf{RM}\text{-}9908} \mathsf{/61HS30/61HS30}_{\mathsf{RM}\text{-}9908} \mathsf{/61HS30/61HS3/61HS30/61H$

H1



REF. N	O. PART NO.	DESCRIPTION			REMARK
	* A-1372-933-A	A H3 BOARD, COM			
		< CAPACITOR >			
C9301	1-126-964-11	ELECT	10UF	20%	50V
C9302	2 1-126-964-11	ELECT	10UF	20%	50V
C9303	3 1-126-959-11	ELECT	0.47UF	20%	50V
C9304	1-126-959-11	ELECT	0.47UF	20%	50V
C9305	5 1-162-970-11	CERAMIC CHIP	0.01UF	10%	25V
		< CONNECTOR >			
CN93	01* 1-564-526-11	PLUG, CONNECT	OR 11P		
		<diode></diode>			
D930	1 8-719-110-53	RD10ESB2			
D9302	2 8-719-110-53	RD10ESB2			
D9303	8-719-110-53	RD10ESB2			
D9304					
D930:	5 8-719-110-53	RD10ESB2			
D930	8-719-110-53	RD10ESB2			
		<jack></jack>			
J9301	1-565-929-11	TERMINAL BLOO	CK, S 3P		
		< RESISTOR >			
R9301	1-216-821-11	RES-CHIP	1K	5%	1/16W
R9302	2 1-216-853-11	RES-CHIP	470K	5%	1/16W
R9303	3 1-216-853-11	RES-CHIP	470K	5%	1/16W
R9304	1-218-285-11	RES-CHIP	75	5%	1/16W
R9305	5 1-218-285-11	RES-CHIP	75	5%	1/16W
R9306		RES-CHIP	75	5%	1/16W
		MISCELLANEOU	-		
	. A-1501-975-	A COUPLER (R) A	SSY CRT	,	
			(53HS20),53HS30)
		A COUPLER (G) A			
	△!\ A-1501-9//	A COUPLER (B) A),53HS30)
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	△ A-1501-978-	A COUPLER (R) A		61HS20),61HS30)
	⚠ A-1501-979-	A COUPLER (B) A	,	0111020	,,0111330)
				61HS20),61HS30)
	A		aar		20)
		A COUPLER (R) A			
		A COUPLER (B) A RESISTOR ASSY			20)
	1-223-923-11	RESISTOR ASSY	(1.0003	ACK)	

△ 1-451-535-11 COIL ASSY, VM △ 1-451-537-11 DEFLECTION YOKE

1-500-021-11 CLAMP, SLEEVE FERRITE 1-529-403-11 SPEAKER (6.6CM)

1-543-653-11 CORE ASSY, BEAD (DIVISION TYPE) 1-544-849-11 SPEAKER (13CM) (EXCEPT 43HT20) 1-544-893-11 SPEAKER (10CM) (43HT20)

	* 1-556-945-21	CABLE, P-P
	* 1-557-056-31	CABLE, P-P
	1-771-787-11	SWITCH, RF ANTENNA
		CORD, AC POWER (WITH CONNECTOR)
	<u> </u>	BLOCK ASSY, HV HVB-1031
jojo	iololololololololololololololololololol	

ACCESSORIES & PACKING MATERIALS

* 4-041-423-01	SHEET, PROTECTION (43HT20)
* 4-041-426-01	BAG, PROTECTION (53HS20,53HS30)
* 4-042-463-01	
* 4-049-155-01	BAG, PROTECTION (43HT20)
* 4-069-575-02	TRAY (53HS20,53HS30)
	(
* 4-069-584-01	TRAY (61HS20,61HS30)
* 4-069-585-02	CUSHION (UPPER) (ASSY) (61HS20,61HS30)
* 4-076-420-01	BAG, PROTECTION (61HS20,61HS30)
* 4-080-860-11	CUSHION UPPER (ASSY) (53HS20,53HS30)
* 4-080-866-01	CUSHION UPPER (ASSY) (43HT20)
4-081-143-11	MANUAL, INSTRUCTION
4-081-143-21	MANUAL, INSTRUCTION
4-081-143-31	MANUAL, INSTRUCTION
* 4-081-544-01	CUSHION, LOWER (ASSY) (53HS20,53HS30)
* 4-081-591-01	TRAY (43HT20)
	,
* 4-081-619-01	CUSHION, LOWER ASSY (43HT20)
* 4-081-694-01	CUSHION, LOWER ASSY (61HS20)
* 4-083-615-01	INDIVIDUAL CARTON (53HS20,53HS30)
* 4-083-685-01	INDIVIDUAL CARTON (61HS20,61HS30)
* 4-083-695-01	CARTON, INDIVIDUAL (43HT20)

REMOTE COMMANDER

1-476-853-11 REMOTE COMMANDER (RM-Y908)

Sony Corporation
HNC, HVC, Projection Display Business. Div

English 2001FA02-1 ©2001.6

SONY®



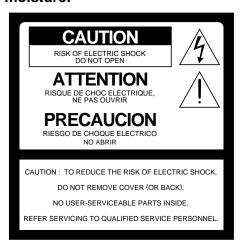
KP-53HS20 KP-53HS30 KP-61HS20 KP-61HS30





WARNING

To prevent fire or shock hazard, do not expose the projection TV to rain or moisture.





This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

CAUTION

To prevent electric shock, do not use this polarized AC plug with an extension cord, receptacle or other outlet unless the blades can be fully inserted to prevent blade exposure.

CAUTION

When using TV games, computers, and similar products with your projection TV, or viewing a TV station whose logo always stays on the screen, keep the brightness and contrast functions at low settings. If a fixed (non-moving) pattern such as a station logo is left on the screen for long periods of time, especially at a high brightness or contrast setting, the image can be permanently imprinted onto the screen. These types of imprints are not covered by your warranty.

Note on Caption Vision

This television receiver provides display of television closed captioning in accordance with §15.119 of the FCC rules.

Note on convergence adjustment

Before you use your projection TV, make sure to adjust convergence. For details, see "Adjusting the Convergence Automatically – FLASH FOCUSTM –" on page 33.

Note to CATV system installer

This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

Use of this television receiver for other than private viewing of programs broadcast on UHF, VHF, transmitted by cable companies or satellite for the use of the general public may require authorization from the broadcaster/cable company and/or program owner.

NOTIFICATION

This equipment has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference with radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antennas.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

This document is for the remote control RM-Y908. MODELS: KP-43HT20, KP-53HS20, KP-53HS30, KP-61HS20, KP-61HS30

Please keep this notice with the instruction manual.

Safety

- Operate the projection TV only on 120 V AC.
- ☐ The plug is designed, for safety purposes, to fit into the wall outlet only one way. If you are unable to insert the plug fully into the outlet, contact your dealer.
- ☐ If any liquid or solid object should fall inside the cabinet, unplug the projection TV immediately and have it checked by qualified service personnel before operating it further.
- ☐ If you will not be using the projection TV for several days, disconnect the power by pulling the plug itself. Never pull on the cord.

For details concerning safety precautions, see "Important Safeguards" on page 4.

Installing

- ☐ To prevent internal heat buildup, do not block the ventilation openings.
- Do not install the projection TV in a hot or humid place, or in a place subject to excessive dust or mechanical vibration.
- Avoid operating the projection TV at temperature below 5°C (41°F).
- ☐ If the projection TV is transported directly from a cold to a warm location, or if the room temperature changes suddenly, the picture may be blurred or show poor color. In this case, please wait a few hours to let the moisture evaporate before turning on the projection TV.
- To obtain the best picture, do not expose the screen to direct illumination or direct sunlight. It is recommended to use spot lighting directed down from the ceiling or to cover the windows that face the screen with opaque drapery. It is desirable to install the projection TV in a room where the floor and walls are not of a reflective material.



As an ENERGY STAR[®]
Partner, Sony Corporation has determined that this product meets the ENERGY STAR[®]
guidelines for energy efficiency.

ENERGY STAR $^{\circledR}$ is a U.S. registered mark.



TruSurround is a trademark of SRS Labs, Inc. SRS and the SRS symbol are registered trademarks

of SRS Labs, Inc. in the United States and selected foreign countries. SRS and TruSurround are incorporated under license from SRS Labs, Inc. and is protected under United States Patent Nos. 4,748,669 and 4, 841, 572 with numerous additional issued and pending foreign patents. Purchase of this product does not convey the right to sell recordings made with the TruSurround technology.

BBE and BBE Symbol are trademarks of BBE Sound, Inc. and are licensed by BBE Sound, Inc. under U.S. Patent No. 4.638.258 and 4.482.866.

ATTENTION

Pour prévenir les chocs électriques, ne pas utiliser cette fiche polarisée avec un prolongateur, une prise de courant ou une autre sortie de courant, sauf si les lames peuvent tre inserées à fond sans en laisser aucune partie à decouvert.

Owner's Record

The model and serial numbers are located at the rear of the projection TV, below the Sony logo, on the sticker, and also on the TV box (white label). Record these numbers in the spaces provided below. Refer to them whenever you call upon your Sony dealer regarding this product.

Model No	
Serial No.	

Important Safeguards

For your protection, please read these instructions completely, and keep this manual for future reference.

Carefully observe and comply with all warnings, cautions and instructions placed on the set or described in the operating instructions or service manual.

WARNING

To guard against injury, the following basic safety precautions should be observed in the installation, use and servicing of the set.

Use

Power Sources

This set should be operated only from the type of power source indicated on the serial/model plate. If you are not sure of the type of electrical power supplied to your home, consult your dealer or local power company. For those sets designed to operate from battery power, refer to the operating instructions.

Grounding or Polarization

This set is equipped with a polarized AC power cord plug (a plug having one blade wider than the other), or with a three-wire grounding type plug (a plug having a third pin for grounding). Follow the instructions below:

For the set with a polarized AC power cord plug

This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug still fails to fit, contact your electrician to have a suitable outlet installed. Do not defeat the safety purpose of the polarized plug by forcing it in.

Alternate Warning for the set with a threewire grounding type AC plug

This plug will only fit into a groundingtype power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to have a suitable outlet installed. Do not defeat the safety purpose of the grounding plug.

Overloading

Do not overload wall outlets, extension cords or convenience receptacles beyond their capacity, since this can result in fire or electric shock.



Always turn the set off when it is not being used. When the set is left unattended and unused for long periods of time, unplug it from the wall outlet as a precaution against the



possibility of an internal malfunction that could create a fire hazard.

If a snapping or popping sound from a TV set is continuous or frequent while the TV is operating, unplug the TV and consult your dealer or service technician. It is normal for some TV sets to make occasional snapping or popping sounds, particularly when being turned on or off.



Object and Liquid Entry

Never push objects of any kind into the set through the cabinet slots as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the set.



Attachments

Do not use attachments not recommended by the manufacturer, as they may cause hazards.



Cleaning

Clean the cabinet of the projection TV with a dry soft cloth. To remove dust from the screen, wipe it gently with a soft cloth. Stubborn stains may be removed with a cloth slightly dampened with solution of mild soap and warm water. Never use strong solvents such as thinner or benzine for cleaning.

If the picture becomes dark after using the projection TV for a long period of time, it may be necessary to clean the inside of the projection TV. Consult qualified service personnel.

Installation

Water and Moisture

Do not use power-line operated sets near water — for example, near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, etc.



Accessories

Do not place the set on an unstable cart, stand, table or shelf. The set may fall, causing serious injury to a child or an adult and serious damage to the set. Use only a cart or stand recommended by the manufacturer for the specific model of projection TV. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the a





and uneven surfaces may cause the appliance and cart combination to overturn.

Ventilation

The slots and openings in the cabinet and in the back or bottom are provided for necessary ventilation. To ensure reliable operation of the set, and to protect it from overheating, these slots and openings must never be blocked or covered.

- Never cover the slots and openings with a cloth or other materials.
- Never block the slots and openings by placing the set on a bed, sofa, rug or other similar surface.



Never place the set in a confined space, such as a bookcase or built-in cabinet, unless proper ventilation is provided.



Do not place the set near or over a radiator or heat register, or where it is exposed to direct sunlight.



Power-Cord Protection

Do not allow anything to rest on or roll over the power cord, and do not place the set where the power cord is subject to wear or abuse.



Antennas Outdoor Antenna Grounding

If an outdoor antenna is installed, follow the precautions below. An outdoor antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can come in contact with such power lines or circuits.

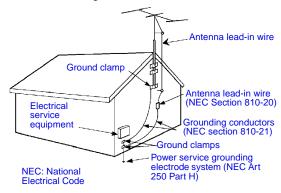
WHEN INSTALLING AN OUTDOOR ANTENNA SYSTEM, EXTREME CARE SHOULD BE TAKEN TO KEEP FROM CONTACTING SUCH POWER LINES OR CIRCUITS AS CONTACT WITH THEM IS ALMOST INVARIABLY FATAL.

Be sure the antenna system is grounded so as to provide some protection against voltage surges and built-up static charges.

Section 810 of the National Electrical Code (NEC) in USA and Section 54 of the Canadian Electrical Code in Canada provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

Antenna Grounding According to the NEC

Refer to section 54-300 of Canadian Electrical Code for Antenna Grounding.



Lightning

For added protection for this television receiver during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna. This will prevent damage to the receiver due to lightning and power-line surges.

Service

Damage Requiring Service

Unplug the set from the wall outlet and refer servicing to qualified service personnel under the following conditions:

- When the power cord or plug is damaged or frayed.
- ☐ If liquid has been spilled into the set.
- If the set has been exposed to rain or water.
- ☐ If the set has been subject to excessive shock by being dropped, or the cabinet has been damaged.
- If the set does not operate normally when following the operating instructions.

 Adjust only those controls that are specified in the operating instructions.

 Improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the set to normal operation.
- ☐ When the set exhibits a distinct change in performance, it indicates a need for service.

Servicing

Do not attempt to service the set yourself since opening the cabinet may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.



Replacement Parts

When replacement parts are required, be sure the service technician certifies in writing that he has used replacement parts specified by the manufacturer that have the same characteristics as the original parts.

Unauthorized substitutions may result in fire, electric shock or other hazards.

Safety Check

Upon completion of any service or repairs to the set, ask the service technician to perform routine safety checks (as specified by the manufacturer) to determine that the set is in safe operating condition, and to so certify. When the set reaches the end of its useful life, improper disposal could result in a picture tube implosion. Ask a qualified service technician to dispose of the set.





For Safety

Be careful when moving the projection TV

When you place the projection TV in position, be careful not to drop it on your foot or fingers.



Watch your footing while installing the projection TV.

Carry the projection TV in the specified manner

If you carry the projection TV in a manner other than the specified manner and without the specified number of persons, it may drop and a serious injury may be caused. Be sure to follow the instructions mentioned below.

- Carry the projection TV with the specified number of persons. (see page 10)
- Do not carry the projection TV holding the speaker grill.
- ☐ Hold the projection TV tightly when carrying it.

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Introducing the Sony Projection TV

Presenting the Sony Projection TV

Thank you for purchasing the Sony Projection TV. This manual is for models KP-43HT20, KP-53HS20, KP-53HS30, KP-61HS20 and KP-61HS30.

Model KP-53HS30 is used for illustration purposes.

Features

Some of the features that you will enjoy with your new projection TV include:

- □ Hi Scan 1080[™]: Enables you to receive the 1080i, 720p, 480p and 480i digital TV formats. By using the VIDEO 5/6 IN jacks, you can connect a DTV (digital television) receiver to view DTV programs.
- □ DRC[™] Multi-Function: Unlike conventional line doublers, the DRC feature doubles vertical and horizontal lines, resulting in four times the density for quality sources such as DVD, Satellite and Digital camcorder.
- CineMotion[™]: Using the 2-3 Pull-Down technology, the CineMotion feature allows you to obtain a smooth picture movement when playing back movies or other video sources on film.
- **Twin View** **: Using Multi-Image Driver (MID-X), Twin View allows you to watch two programs side by side with the ability to zoom in one picture and listen to selected window. You can watch pictures from two different sources (1080i, 720p, 480p or 480i) simultaneously.
- **16:9 Enhancement:** Vertical Compression technology that maximizes picture resolution on "anamorphic" or "enhanced for wide screen" sources, including selected DVDs.
- □ **Steady Sound** Equalizes volume levels so there is consistent output between programs and commercials.
- **Parental Control:** V-Chip technology allows parents to block unsuitable programming for younger viewers.
- □ Component Video Inputs: Offers the best video quality for DVD (480p, 480i) and Digital Set-top box (1080i, 720p, 480p, 480i) connections.
- **S-VIDEO Inputs:** Provides a high-quality image for connected equipment.
- ☐ **Favorite Channel Preview:** Preview up to eight favorite channels without leaving the current channel.

- **Channel Index**: Allows you to view and choose from twelve programs.
- □ **Flash Focus**[™]: Allows you to adjust convergence automatically.

Using this manual

We recommend that you carefully review the contents of the following four sections in the order provided to ensure that you fully understand the operation of your new projection TV.

1 Installing and Connecting the Projection TV

This section guides you through your initial setup. It shows you how to install your projection TV, to connect your new components and to connect the antenna and cable.

2 Using the Features

This section shows you how to begin using your new projection TV. It shows you how to use your remote control functions.

3 Using the menus

This section teaches you how to access on-screen menus and adjust your projection TV settings.

Instructions in this manual are written for the remote control. Similar controls may be found on the projection TV console.

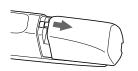
Installing and Connecting the Projection TV

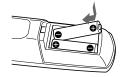
Contents

Your box contains your new projection TV, a remote control and two AA batteries. No peripheral cables are included. If you intend to add additional equipment to your projection TV, please check the hookup instructions for your desired setup before you begin. You may need to purchase cables and/or splitters to complete the hookup properly.

Inserting Batteries to the Remote Control

Insert two size AA (R6) batteries (supplied) by matching the + and - on the batteries to the diagram inside the battery compartment.





- Remove the batteries to avoid damage from possible battery leakage whenever you anticipate that the remote control will not be used for an extended period.
- Andle the remote control with care. Avoid dropping it, getting it wet, or placing it in direct sunlight, near a heater, or where the humidity is high.
- Your remote control can be programmed to operate most video equipment. (See "Programming the Remote Control" on page 65.)

Carrying Your Projection TV

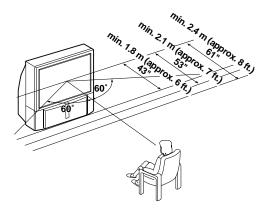
Carrying the projection TV requires three or more people.

The projection TV has been equipped with casters for easy movement on a hard surface. (for KP-53HS20, KP-53HS30, KP-61HS20 and KP-61HS30 only)

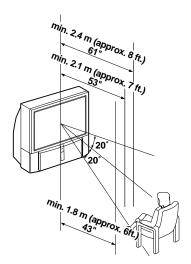
Please move your projection TV using the casters.

Installing the Projection TV

Recommended viewing area (Horizontal)



Recommended viewing area (Vertical)



Connector Types

You may find it necessary to use some of the following connector types during set up.

Coaxial cable

Standard TV cable and antenna cable

Plug Type



S Video cable

High quality video cable for enhanced picture quality



Audio/Video cable



Video - Yellow

Audio (Left) - White

Audio (Right) - Red

Some DVD Players are equipped with the following three video connectors.

Y - Green

 P_B (C_B , C_b or B-Y) - Blue

 P_R (C_R , C_r or R-Y) - Red

CONTROL S cable

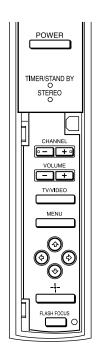
CONTROL S connections are exclusive to Sony products and allow greater control of all Sony equipment.

— ■ Push into connection.

Projection TV Controls and Connectors

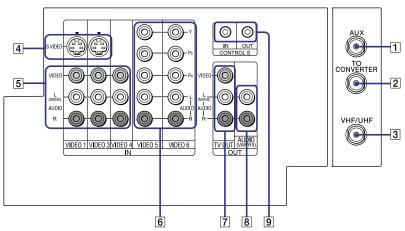
Front Panel Menu Controls

The front panel menu controls allow access to the on-screen menus without the use of a remote control. Pressing MENU brings up the on-screen menus. The arrow buttons move the on-screen cursor in the menus and the Select button (+) selects the menu item.

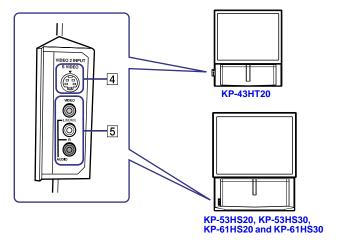


Projection TV Rear and Front/Side Panel Connectors

Rear of projection TV



Front or side of projection TV



Connection	Description
1 AUX	Allows you to view local and cable channels if your cable provider does not feature local channels. You can switch between local and cable channels easily by pressing ANT on the remote control. Devices connected to the AUX input cannot be viewed in Twin View.
2 TO CONVERTER	This is a VHF/UHF OUT jack that lets you set up your projection TV to switch between scrambled channels (through a cable box) and normal cable channels (CATV). Use this jack instead of a splitter to get better picture quality when switching between scrambled and unscrambled cable channels.
3 VHF/UHF	Connects to your VHF/UHF antenna or cable.
4 S VIDEO (Rear and front/ side)	Connects to the S VIDEO OUT jack of your VCR or other S VIDEO-equipped video component. Provides better picture quality than the VHF/UHF jacks or the Video IN jack.
5 VIDEO (L/R)/AUDIO (Rear and front/ side)	Connects to the audio and video OUT jacks on your VCR or other video component. A fourth video input (VIDEO 2) is located on the side panel (for KP-43HT20) or the front panel (for KP-53HS20, KP-53HS30, KP-61HS20 and KP-61HS30) of the projection TV.
6 Y/P _B /P _R (L/R)/AUDIO	Connects to your DVD player's or Digital Set-top box's component video (Y, PB, PR) and audio (L/R) jacks.
7 TV OUT	Connects to an AV receiver for greater control of all audio and video equipment. (see page 30) For detailed information about connection, refer to the operating manual supplied with the AV receiver.
8 AUDIO OUT (VAR/FIX) L (MONO)/R	Connects to the left and right audio inputs of your audio or video component.
9 CONTROL S IN/OUT	To control other Sony equipment with the projection TV's remote control, connect the CONTROL S IN jack of the equipment to the CONTROL S OUT jack on the projection TV with the CONTROL S cable.
	To control the projection TV with a remote control for another Sony product, connect the CONTROL S OUT jack of the equipment to the CONTROL S IN jack on the projection TV with the CONTROL S cable.

Basic Connections (Connecting Cable TV or Antenna)

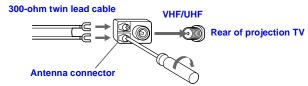
Connecting Directly to Cable or an Antenna

The connection you choose depends on the cable found in your home. Newer homes are equipped with standard coaxial cable (see A); older homes probably have 300-ohm twin lead cable (see B); other homes may contain both (see C).

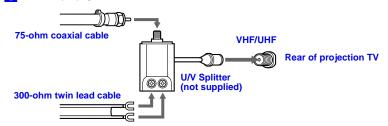
A VHF Only or VHF/UHF or Cable



B VHF Only or UHF Only or VHF/UHF

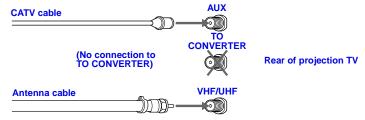


C VHF and UHF



Cable and Antenna

If your cable provider does not feature local channels, you may find this set up convenient.



Select CABLE or antenna (ANT) mode by pressing ANT on the remote control.

To receive channels with an antenna, you need to turn your Cable to OFF (see page 52) and perform the Auto Program function (see page 53).

Cable Box Connections

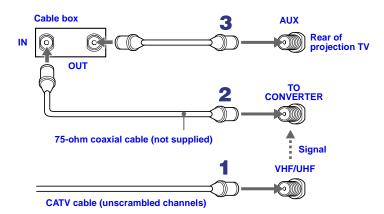
Cable Box and Cable

This is the preferred basic cable TV hookup to use if:

- Your cable TV company scrambles some channels, but not all of them (pay channels vs. regular cable channels) and you need to use a cable box, and
- ☐ You want to enjoy the Twin View feature.

With this setup you can:

- Use the projection TV remote control to change channels using your cable box when the signal is scrambled.
- Use the projection TV remote control to change channels using your projection TV when the signal is not scrambled. (Your projection TV's tuner provides a better signal than the cable box.)
- Use the Twin View feature. (When all channels are routed through your cable box, only one channel is sent to the projection TV, so you can not use the Twin View or Channel Index features for your cable box.)
- 1 Connect the Cable TV cable to the projection TV's VHF/UHF jack.
- Using a coaxial cable, connect the projection TV's TO CONVERTER jack to the cable box's IN jack. The projection TV's internal converter allows you to switch between unscrambled signals coming straight into the projection TV and scrambled signals coming in through the cable box, eliminating the need for an external splitter.
- 3 Using a coaxial cable, connect the cable box's OUT jack to the projection TV's AUX jack.



Pressing ANT on the remote control switches between the channels coming in through the cable box (scrambled) and those coming directly to the TV (unscrambled).

Installing and Connecting the Projection TV

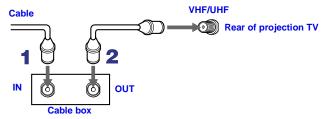
Cable Box Only

Use this hookup if:

- You subscribe to a cable TV system that uses scrambled or encoded signals requiring a cable box to view all channels, and
- ☐ You do not intend to hook up any other audio or video equipment to your projection TV.

When all channels are routed through your cable box, only one unscrambled channel is sent to the projection TV, so you cannot use the Twin View feature. If some channels are scrambled, but others are not, consider using the hookup on page 17 instead.

- 1 Connect the coaxial connector from your cable service to the cable box's IN jack.
- 2 Using a coaxial cable, connect the cable box's OUT jack to the TV's VHF/UHF jack.



Also, set Cable to ON in the Channel menu. (see page 52)

- Setting the Channel Fix feature in the Channel menu (see "Using the Channel Menu" on page 52) ensures that you do not accidentally switch the channels using your projection TV.
- If you will be controlling all channel selection through your cable box, consider using the Channel Fix feature to set your projection TV to channel 3 or 4. (see page 53)
- Your Sony remote control can be programmed to operate your cable box. (see "Programming the Remote Control" on page 65)
- To change channels using the cable box, set your projection TV to channel 3 or 4 depending on the cable box channel output.

Connecting a VCR and Cable

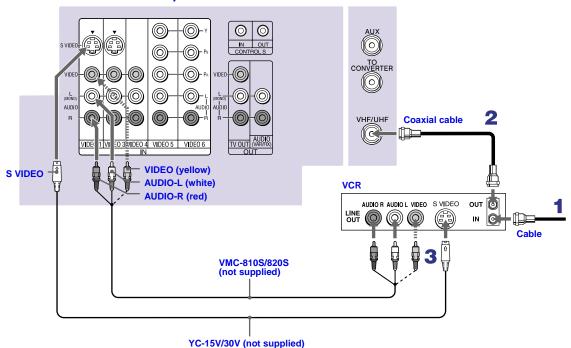
Use this hookup if:

You have cable TV that does not require a cable box.

Disconnect all power sources before making any connections.

- 1 Connect the cable TV cable to the VCR's IN jack.
- 2 Using a coaxial cable, connect the VCR's OUT jack to the projection TV's VHF/UHF jack.
- 3 Using AUDIO and S VIDEO cables, connect the VCR's Audio and Video OUT jacks to the projection TV's AUDIO and S VIDEO IN jacks.

Rear of Projection TV



instead of the S VIDEO cable.

Connecting a VCR and Cable Box

Use this hookup if:

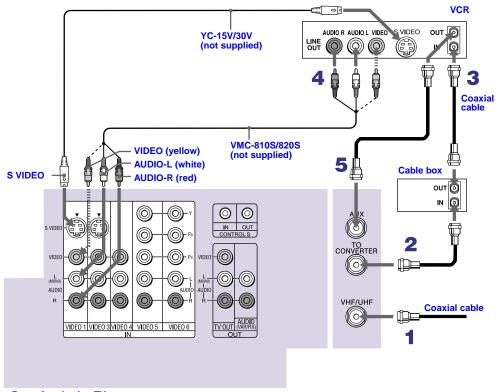
- ☐ Your cable TV company scrambles some channels, but not all of them (pay channels vs. regular cable channels) and you need to use a cable box, and
- ☐ You want to enjoy the Twin View feature.

With this setup you can:

- Use the projection TV remote control to change channels using your cable box when the signal is scrambled.
- Use the projection TV remote control to change channels using your projection TV when the signal is not scrambled. Your projection TV's tuner provides a better signal than the cable box.
- ☐ Use the Twin View feature. (When all channels are routed through your cable box, only one signal is sent to the projection TV, so you cannot use the Twin View feature.)

Disconnect all power sources before making any connections.

- 1 Connect the Cable TV cable to the projection TV's VHF/UHF jack.
- Using a coaxial cable, connect the TV's TO CONVERTER jack to the cable box's IN jack. The projection TV's internal converter allows you to switch between unscrambled signals coming straight into the projection TV and scrambled signals coming in through the cable box, eliminating the need for an external splitter.
- 3 Using a coaxial cable, connect the cable box's OUT jack to the VCR's IN jack.
- 4 Using AUDIO and S VIDEO cables, connect the VCR's AUDIO and S VIDEO OUT jacks to the projection TV's AUDIO and S VIDEO IN jacks.
- Using a coaxial cable, connect the VCR's OUT jack to the projection TV's AUX jack.
- To view scrambled channels, set your projection TV to AUX 3 or 4 (depending on your cable box output). Change channels using your cable box.



Rear of projection TV

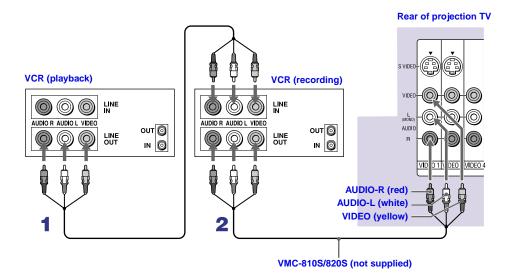
- instead of the S VIDEO cable. WIDEO cable (yellow)
- You will not be able to change channels on the VCR. Set your projection TV and VCR to channel 3 or 4, depending on your cable box channel output.
- Pressing ANT on the remote control switches between the channels coming in through the cable box (scrambled) and those coming directly to the projection TV (unscrambled).

Connecting Two VCRs for Tape Editing

Connecting two VCRs together, then into the projection TV, allows you to switch between the two to be sure that what you are playing on one is recording on the other.

Disconnect all power sources before making any connections.

- 1 Using AUDIO and VIDEO cables, connect the playback VCR's Audio and Video OUT jacks to the recording VCR's Audio and Video IN jacks.
- 2 Using AUDIO and VIDEO cables, connect the recording VCR's AUDIO and Video OUT jacks to the projection TV's AUDIO and VIDEO IN jacks.



- To perform tape editing, set the projection TV to the video input intended for playback by pressing TV/VIDEO on the remote control.
- You may need to change the video input on your VCR. Consult your VCR's operating manual for instructions.
- If your VCRs have an S VIDEO jack: For best picture quality, use an S VIDEO connection instead of the yellow video cable on your combined A/V cable.
 - Using an S VIDEO cable, connect the playback VCR's S VIDEO OUT jack to the recording VCR's S VIDEO IN jack. S VIDEO does not provide audio, so audio cables must still be connected to provide sound.
- ightharpoonup You cannot record signals from equipment connected to the Y, P_B , P_R input.

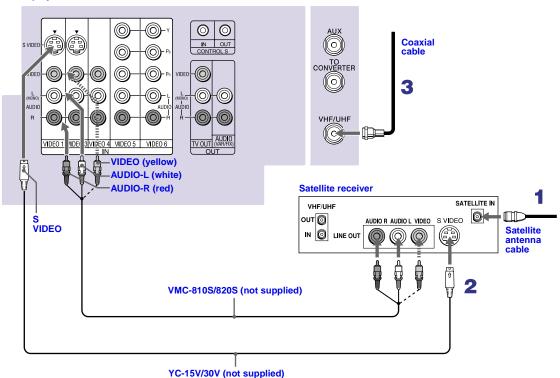
Connecting a Satellite Receiver

Disconnect all power sources before making any connections.

- Connect the satellite antenna cable to the satellite receiver's SATELLITE IN jack.
- 2 Using AUDIO and S VIDEO cables, connect the satellite receiver's AUDIO and S VIDEO OUT jacks to the projection TV's AUDIO and S VIDEO IN jacks.
- 3 Connect a coaxial cable from your cable or antenna to the projection TV's VHF/UHF jack.

If your satellite receiver is not equipped with S VIDEO, use a VIDEO cable (yellow) instead of the S VIDEO cable.

Rear of projection TV

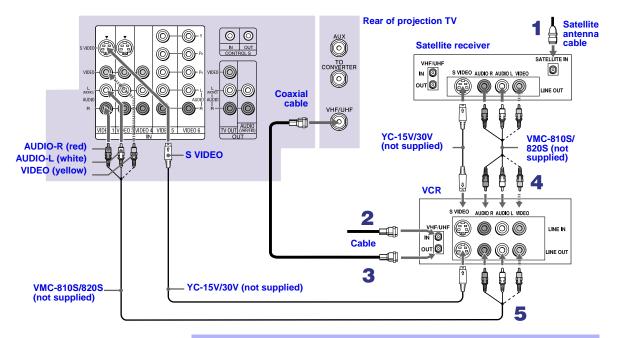


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Connecting a Satellite Receiver with a VCR

Disconnect all power sources before making any connections.

- 1 Connect the satellite antenna cable to the satellite receiver's SATELLITE IN jack.
- 2 Connect the CATV cable to the VCR's VHF/UHF IN jack.
- 3 Using a coaxial cable, connect the VCR's OUT jack to the projection TV's VHF/UHF jack.
- 4 Using AUDIO and S VIDEO cables, connect the satellite receiver's AUDIO and S VIDEO OUT jacks to the VCR's AUDIO and S VIDEO IN jacks.
- 5 Using AUDIO and S VIDEO cables, connect the VCR's AUDIO and S VIDEO OUT jacks to the TV's AUDIO and S VIDEO IN jacks.



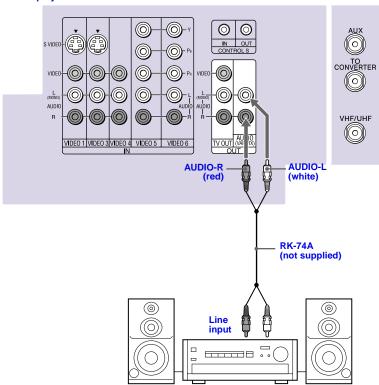
- Be sure your VCR's video input is set correctly. Consult your VCR's operating manual for instructions.
- - VIDEO 1 to watch satellite TV or the VCR. (Your VCR must be turned on)
 - VHF/UHF to watch cable TV.
- If your VCR or satellite receiver is not equipped with S VIDEO, use a VIDEO cable (yellow) instead of the S VIDEO cable.

Connecting an Audio Receiver

Disconnect all power sources before making any connections.

Using audio cables, connect the projection TV's AUDIO OUT (VAR/FIX) jacks to the audio receiver's audio LINE IN jacks.

Rear of projection TV



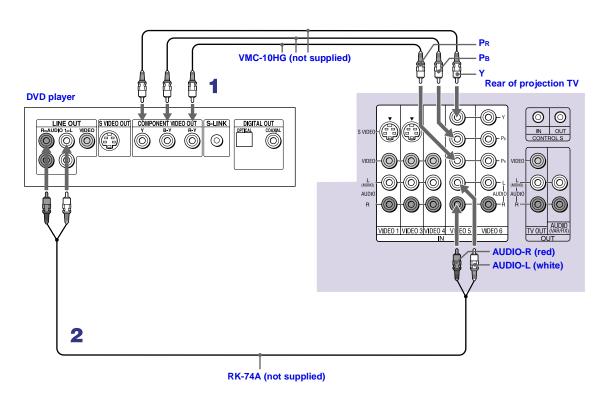
Connecting a DVD Player with Component Video Connectors

This is the preferred hookup to use if:

Your DVD player has component (Y, PB, PR) jacks.

Disconnect all power sources before making any connections.

- 1 Using three separate component video cables, connect the DVD player's Y, PB and PR jacks to the Y, PB and PR jacks on the projection TV. Use the VIDEO IN 5 or 6 connections.
 - The Y, PB and PR jacks on your DVD player are sometimes labeled Y, CB and CR, or Y, B-Y and R-Y. If so, connect the cables to like colors.
- 2 Using an audio cable, connect the DVD player's Audio OUT jacks to the projection TV's AUDIO IN jacks. Be sure to use the same row of inputs that you used for the video connection (VIDEO IN 5 or 6).



Connecting a DVD Player with A/V Connectors

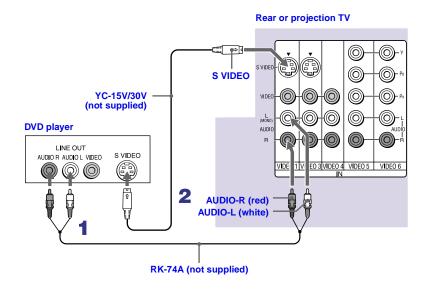
Use this hookup if:

Your DVD player does not have component (Y, PB, PR) jacks.

if your DVD player has video component output connectors: for best picture quality use the connection described on page 26.

Disconnect all power sources before making any connections.

- 1 Using audio cables, connect the DVD player's Audio OUT jacks to the projection TV's AUDIO IN jacks.
- 2 Using an S VIDEO cable, connect the DVD player's S VIDEO jack to the projection TV's S VIDEO jack.



Use TV/VIDEO on the remote control to switch between the VCR, DVD player and cable TV inputs.

Connecting a Digital TV Receiver

Be sure to read the Set-top box manual.

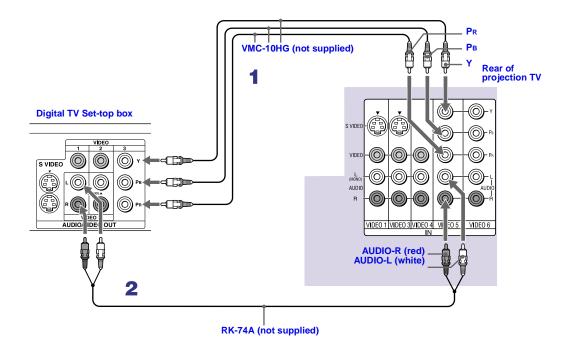
Disconnect all power sources before making any connections.

1 Using three separate component video cables, connect the Digital TV Set-top box's Y, PB and PR jacks to the projection TV.

 $\ \, \ \, \ \,$ The Y, PB and PR jacks do not provide audio, so audio cables must be connected to provide sound.

Component input (Y, P_B and P_R) is recommended for optimum picture quality. Component input is necessary to view 480p, 720p and 1080i formats. You may also use component video or S VIDEO connections.

2 Using an audio cable, connect the Digital TV Set-top box's Audio OUT jacks to the projection TV's AUDIO IN jacks.



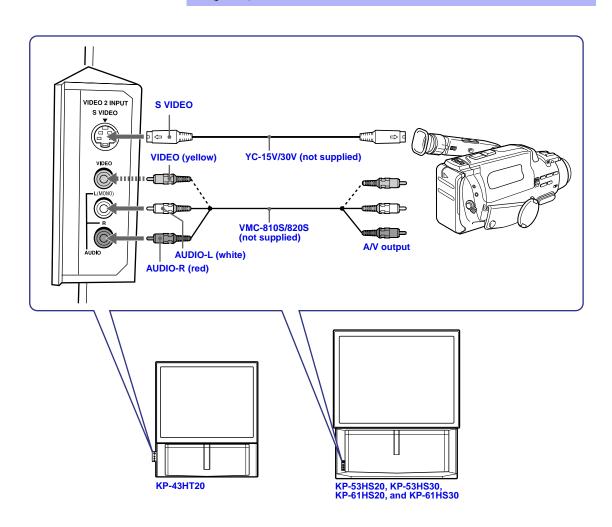
- Arr You cannot record the signal from any equipment connected into the Y, PB and PR connectors.
- This projection TV is not compatible with digital TV receivers configured with RGB or VGA output connectors.

Connecting a Camcorder

For easy connection of the camcorder, the projection TV has front Audio and Video inputs (shown below). However, if you prefer, you can also connect the camcorder to the projection TV's rear Audio and Video IN jacks.

Using AUDIO and S VIDEO cables, connect the camcorder's Audio and S VIDEO OUT jacks to the projection TV's AUDIO and S VIDEO IN jacks.

- If you have a mono camcorder, connect its left audio output to the projection TV's AUDIO L jack.
- If your camcorder is not equipped with S VIDEO, use a VIDEO cable (yellow) instead of the S VIDEO cable.



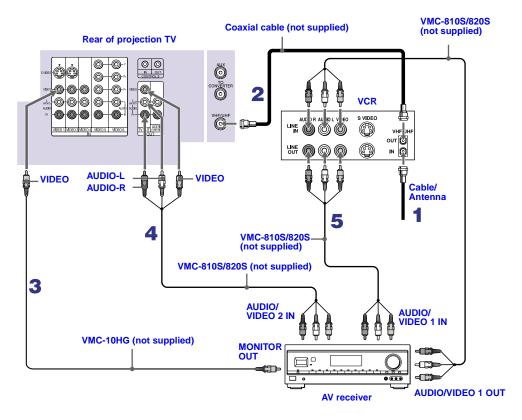
Connecting an AV Receiver

For greater control of all audio and video equipment, connect an AV receiver.

A Change "Video Label" for the VIDEO 1 input to "Receiver." (see page 64)

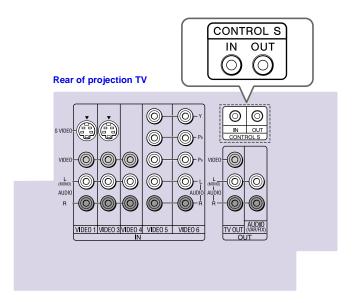
Disconnect all power sources before making any connections.

- 1 Connect the coaxial cable from the incoming cable connection or antenna to IN on the VCR.
- 2 Using a coaxial cable, connect OUT on the VCR to VHF/UHF on the projection TV.
- 3 Using a VIDEO cable, connect VIDEO of VIDEO 1 IN on the projection TV to MONITOR OUT on the AV receiver.
- 4 Using an AUDIO/VIDEO cable, connect TV OUT on the projection TV to AUDIO/VIDEO 2 IN on the AV receiver.
- 5 Using an AUDIO/VIDEO cable, connect the video equipment to the AV receiver.
- 6 Select the Setup menu and set "Video Label" to "Receiver" to fix your TV's input to AV receiver. (see "Video Label" on page 64)



Using the CONTROL S Feature

CONTROL S allows you to control your projection TV system and other Sony equipment with one remote control. In addition to allowing you to control multiple devices with one remote control, the CONTROL S feature allows you to always point your remote control at your projection TV, instead of having to point it at the other equipment, which might be hidden or out of direct line of sight.



Setting Up the Projection TV Automatically

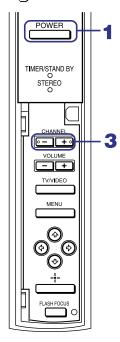
After you finish connecting your projection TV, you can run Auto Setup to set up your channels. The Auto Setup screen appears when you turn your projection TV on for the first time after installing it. If you do not want to set up the channels at this time, you can do it later by using the Auto Program feature in the Channel menu. (see page 53)

The Auto Setup feature does not apply for installations that use a cable box for all channel selection.

Using Auto Setup

- Press POWER on the front panel of your projection TV or on the remote control to turn on the projection TV.
- 2 Press the TV (FUNCTION) button on your remote control. Red light will briefly appear.
- Press CH+ on your projection TV to run Auto Setup, or press CH- to exit. If you use the channel buttons on your remote control, be sure to use the main set of buttons $(\ddot{+})$.

Projection TV front panel



A You can run Auto Program by selecting it in the Channel menu, as described on page 53.

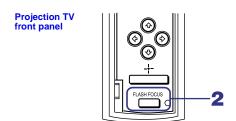
Adjusting the Convergence Automatically – FLASH FOCUS™ –

The projection tube image appears on the screen in three layers (red, green and blue). If they do not converge, the color is poor and the picture blurs.

Before you use your projection TV, be sure to adjust the convergence.

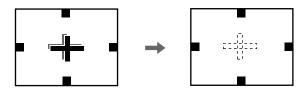
The FLASH FOCUS feature allows you to adjust the convergence automatically.

A It is recommended to perform FLASH FOCUS about 30 minutes after the projection TV is first turned on.



- Receive a TV or cable TV program.
- Press FLASH FOCUS.

The cross pattern appears and FLASH FOCUS begins to work. The adjustment is completed when the cross pattern becomes white and will come back to the program you are watching.



To obtain an optimum convergence for Digital TV programs The optimum convergence alignment varies with digital TV formats. Whenever you find that the picture blurs, press FLASH FOCUS.

- A You cannot perform any other functions until FLASH FOCUS has completed its cycle.
- A If you perform any other operation while FLASH FOCUS is in progress, FLASH FOCUS operation is canceled.
- dunshielded speakers or other metallic objects can cause picture distortion if placed close to the projection TV.

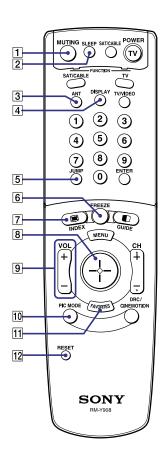
Using the Features

Using the Remote Control

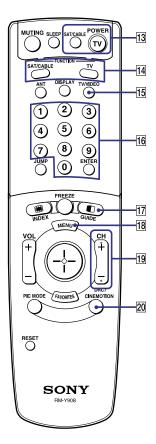
The following table describes the buttons on the remote control that are for more advanced functions.

Amain Power button must be turned ON to activate the remote control.

Button Descriptions



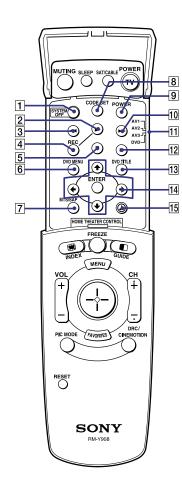
Outside Panel	
Button	Description
1 MUTING	Press to mute the sound. Press again or press VOL + to restore the sound.
2 SLEEP	Press repeatedly until the projection TV displays the time in minutes (15, 30, 45, 60, or 90) that you want the projection TV to remain on before shutting off automatically. Cancel by pressing until SLEEP OFF appears. While Sleep feature is set, press once to view remaining time.
3 ANT	Changes between the VHF/UHF input to the AUX input.
4 DISPLAY	Press once to display the current time and channel label (if set) and channel number. Press again to turn Display off. See page 62 for details on setting the time.
5 JUMP	Press to jump back and forth between two channels. The projection TV alternates between the current channel and the last channel that was selected.
6 FREEZE	Freezes the window picture. Press again to restore the picture.
7 m INDEX	Press to enter the Channel Index mode. You can view and select from twelve channels without leaving the current one.
8	Joystick allows for movement of the on-screen cursor. Pressing down on the center of the joystick selects the item
9 VOL +/-	Adjusts the volume.
10 PIC MODE	Press repeatedly to step through the available video picture modes: Vivid, Standard, Movie and Pro. Also available in the Video menu. For details, see "Selecting Video Options" on page 48.
11 FAVORITES	Displays the Favorite Channels list. For details, see "Using Favorite Channels" on page 40.
12 RESET	Press when in a menu to reset the settings to the factory defaults.



Description Turn on and off the projection TV and other audio/video
Turn on and off the projection TV and other audio/video
equipment you have programmed into the remote control.
For instructions, see "Programming the Remote Control" on page 65.
Select the equipment (TV, SAT/CABLE) that you want to operate. The indicator lights up momentarily when pushed
to show which device the remote control is operating.
Cycles through the video equipment connected to your projection TV's video inputs: TV, VIDEO 1, VIDEO 2, VIDEO 3, VIDEO 4, VIDEO 5 and VIDEO 6.
Press 0 - 9 to select a channel, the channel changes after 2 seconds. Press ENTER to select immediately.
Turns on/off Twin View. For details, see "Using Twin View TM " on page 41.
Displays the program guide of your satellite.
Press to display the projection TV on-screen menu. Press again to exit from the menus.
Scan through channels.
Press repeatedly to step through the available high- resolution picture modes: Interlaced, Progressive and CineMotion. For details, see "Using the Video Menu" on page 48.

To scan rapidly through the channels, press and hold down CH+ or CH-.

Using the Features

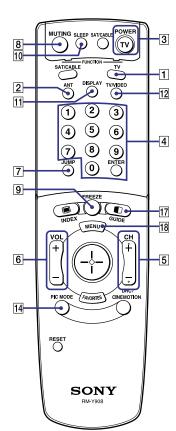


Inside Panel	
Button	Description
1 SYSTEM OFF	Press to turn off the projection TV and all equipment connected with S-Link.
2	Play
3	Rewind
4 REC	Record
5 ■	Stop
6 DVD MENU	Displays the DVD menu.
7 MTS/SAP	Press to scroll through the Multi-channel TV Sound (MTS) options: Stereo, Auto SAP, and Mono.
8 CODE SET	Used for programming the remote control to operate non- Sony video equipment. For details, see "Programming the Remote Control" on page 65.
9 POWER	Press to turn on the DVD/VCR player you have programmed into the remote control. For instructions, see "Programming the Remote Control" on page 65.
10 ▶▶	Fast-forward
AV1 AV2 AV3 DVD	Use to switch control for connected video equipment. You can program one video source for each switch position. For details, see "Programming the Remote Control" on page 65.
12	Pause (Press again to resume normal playback)
13 DVD TITLE	Displays the DVD title.
14 ↑ , ↓ , ← , → , and ENTER	Use to operate the DVD menu.
15	Press to select an audio option: Steady Sound ON or OFF.

Watching the TV

Many TV features can be accessed directly through the remote control. The following will explain the function of some buttons found on your remote control.

Buttons for Projection TV Operations



1 TV (FUNCTION)

Activates the remote control for use with the projection TV.

2 ANT— (AUX input)

Press to change between the VHF/UHF input and the AUX input. (for detailed connection information, see "Cable and Antenna" on page 16 or "Cable Box Connections" on page 17)

3 TV (POWER)

Turns the projection TV on and off. If a video input indication (e.g., VIDEO 1, VIDEO 2) appears on the screen, press TV/VIDEO or CH +/ – until a channel number appears.

4 0-9 and ENTER

Use for direct channel selection. Press 0-9 to select a channel (for example, to select channel 10, press 1 and 0). The channel will change after 2 seconds, or you can press ENTER for immediate selection.

5 CH +/-

Press to scan through the channels (+ up or – down).

6 **VOL** +/-

Press to adjust the volume (+ up or - down).

7 JUMP

Press to alternate or jump back and forth between two channels. The projection TV will jump between the current channel and the last channel selected.

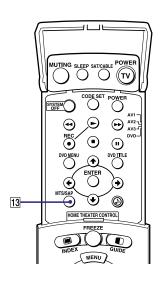
8 MUTING

Press to mute the sound. "MUTING" will appear on the screen and will dim three seconds later. To restore sound, press again or press VOL +.

9 FREEZE — (yellow labeled button)

This is useful when you need to copy down information that appears on the TV's screen. (see "Using the Freeze Function" on page 44)

Using the Features



10 SLEEP

Press repeatedly until the projection TV displays the approximate time in minutes (15, 30, 45, 60, or 90) that you want the projection TV to remain on before shutting off automatically.

Cancel by pressing SLEEP until "SLEEP OFF" appears.

11 DISPLAY

Press to display the channel number, current time and channel label (if set).

To turn the display off, press DISPLAY again.

12 TV/VIDEO

Press repeatedly to scroll through available video inputs: TV, VIDEO 1, VIDEO 2, VIDEO 3, VIDEO 4, VIDEO 5 and VIDEO 6.

If you select Skip as a Video Label in the Setup menu, your projection TV will skip the video input you selected. (see "Video Label" on page 64)

13 MTS/SAP

Press to scroll through the Multi-channel TV Sound (MTS) options. (see "MTS" on page 50)

14 PIC MODE

Press PIC MODE repeatedly to directly choose one of five different video modes that best suits the program you are watching.

Vivid: Select for enhanced picture contrast and sharpness.

Standard: Select to display a standard picture for normal viewing environments.

Movie: Select to display a finely detailed picture for low light environments.

Pro (Professional): Select to display a picture with minimum enhancements.

When you select each mode, you can also adjust the picture quality (such as Brightness, Color, etc.) to suit your taste. For details, see "Mode" on page 48.

Watching the Digital TV

When you have connected the DTV receiver, you can enjoy digital TV programs. This projection TV is capable of receiving the 1080i, 720p, 480p and 480i digital TV formats.

This projection TV is not capable of displaying a native 720p format signal. When the 720p format signal is received, it is converted into a 480p format signal.

To view a digital TV program

- 1 Connect the DTV receiver to VIDEO 5 or 6 IN on the projection TV. (for details, see page 28)
- Press TV/VIDEO to select VIDEO 5 or 6.
- 3 Select a digital channel on the DTV receiver. For details, see the Operating Manual of the DTV receiver.
- 4 Adjust the volume on this projection TV as necessary.

The optimum convergence alignment varies with digital TV formats. Whenever you find that the picture blurs, press FLASH FOCUS. (for details, see page 33)

Using Favorite Channels

The Favorite Channel feature lets you select programs from a list of favorite channels that you preset.

To display a list of your favorite channels:

Your Favorite Channel options can be set automatically or manually. The factory setting for Favorite Channel is Auto.

When Favorite Channel is set to Auto, the last eight channels selected with 0-9 buttons will be set as Favorite Channel options. If you want to input your own selections as Favorite Channel settings, see "Favorite Channel" on page 52.

1 Press FAVORITES.

The Favorite Channel options appear.

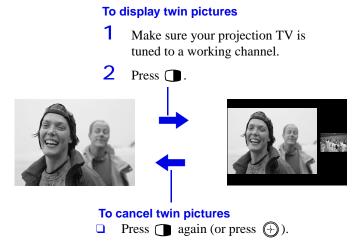


2 Move the joystick up or down to highlight the channel you want to watch. The program on that channel appears in the preview window. Press to select.

Using Twin View™

Twin View enables you to watch two programs at the same time. You can also change the size of both the left and right pictures.

Displaying Twin Pictures



Activating the Picture

Although two pictures appear on the screen at the same time, only one picture is active. Change the picture size by using the joystick. For an active picture, you can:

- Change channels.
- ☐ Adjust the volume.
- Switch the input sources from VHF/UHF to cable by pressing ANT or TV/VIDEO to switch the video input.
- ☐ Change the picture size by pressing the joystick up or down.

To activate the right picture

☐ Move the joystick to the right.



To activate the left picture

■ Move the joystick to the left.

Using the Features

- When you adjust the twin screen sizes, the projection TV memorizes the change. The next time you use the Twin View feature with 480i or 480p format input source, the memorized sizes appear.
- When viewing an enhanced 16:9 picture, the aspect ratio changes to 4:3 in Twin View. The picture will be reformatted to that aspect ratio.
- if viewing a 720p or 1080i format input source, the aspect ratio will maintain the original 16:9 aspect ratio.
- A Hookups that affect your ability to use Twin View:
 - If you are viewing all channels through the cable box, the Twin View feature will not work. The cable box only unscrambles one signal at a time, so the right picture will be the same as the left picture.
 - You can watch a scrambled cable channel and another video source. Be sure your DVD player, VCR or satellite receiver are connected to one of the VIDEO IN 1-6 and AUX inputs on the rear of the projection TV. Pictures from equipment connected to VIDEO 5, 6 and AUX will only appear in the left picture, not in the right.
- The active picture is highlighted in cyan.

Changing the Picture Size

The zoom feature lets you change the size of the left and right pictures.

To enlarge the left picture (reduce the right)

- Move the joystick left to activate the left picture (if not already activated).
- 2 Move the joystick up to enlarge the picture and move the joystick down to reduce the picture.











To enlarge the right picture (reduce the left)

- Move the joystick right to activate the right picture (if not already activated).
- 2 Move the joystick up to enlarge the picture and move the joystick down to reduce the picture.

When you adjust the twin screen sizes, the projection TV memorizes the change. The next time you use the Twin View function, the memorized sizes appear.

Using the Freeze Function

The FREEZE button allows you to temporarily capture a program's picture. You can use this feature to write down information such as phone numbers, recipes, etc.

To use the Freeze function

- When the program information you want to capture is displayed, press FREEZE.
- 2 The projection TV switches to Twin View mode and displays the "frozen" picture on the right, while the current program continues on the left.



3 To cancel and return to normal viewing, press FREEZE.

A Freeze feature is not available if you are already in Twin View™ mode.

Using Channel Index

Channel Index allows you to display multiple channels and select one directly.

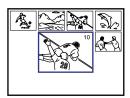
The channels used for Channel Index will come directly from the projection TV's list of receivable channels (those set during "Auto Program" on page

A Channel Index will not function when Parental Lock is activated. (See "Using the Parent Menu" on page 54.)

To use the Channel Index function

1 Press 🕮.

The current channel will be reduced in size and displayed in the center of the screen in normal motion picture format. The first twelve receivable channels will appear one after another, clockwise, around the center picture. These small pictures are updated in intervals of one second. The channel number and channel caption (if set) on the second and later appearances will dim.



A cyan-colored frame will appear to indicate current channel selection.

2 Move the joystick in any direction to move the cyan frame to the channel that you wish to view, and press (-).



The selected channel will zoom in and move to the center, and the sound of that channel will be heard.



Using the Features

For the center picture you can:

- ☐ Change the channel by pressing 0-9 and ENTER.
- Switch the input sources from VHF/UHF to cable by pressing ANT or to the video input by pressing TV/VIDEO, without changing the surrounding channels.
- Sound will only be heard from the center picture.
- If one of the pictures received through Channel Index is snowy, the entire screen may become unstable. In this case, erase the snowy channel. (see "Channel Skip/Add" on page 53)
- If you leave the Channel Index screen displayed for an hour without any additional operation, Channel Index is canceled and the normal picture reappears.
- **3** If you wish to view another channel, repeat step 2.

To view another twelve channels, press CH+.

To view the previous twelve, press CH-.

To view the normal picture of the selected channel, proceed to step 4.

4 Press 🔂.

The center picture will be enlarged for normal viewing.

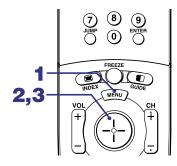


To cancel Channel Index

Press again to resume normal viewing.

Using the Menus

Overview



Opening and choosing a menu:

- 1 Press MENU to display the menu screen.
- 2 Move the joystick to the desired menu icon and press 🕀 to select it.
- **3** Use the joystick to scroll through the features.
- 4 See the specific menu page for instructions on moving through the menu.

The menu gives you access to the following features:

Menu Icon	Description	Page
Video	Allows you to make adjustments to your picture settings. It also allows you to customize the Picture Mode based on the type of program you are viewing.	48
Audio	Offers enhanced audio options such as listening to second audio programming (SAP), or customizing the Effect of the sound on your projection TV.	50
Channel	Allows you to set up a Favorite Channel list, run the Auto Program function, and more.	52
Parent	Lets you control the viewing of programs based on their ratings.	54
Timer	Lets you set the clock on your projection TV and allows you to program your projection TV for scheduled viewing using the Timers.	62
Setup	Provides several options for setting up your channels, labeling your Video inputs, and selecting the language of the on-screen menus.	63

To end a menu session:

Press MENU again.

To end one menu session and move to another:

Press the joystick ♠ to return to the menu icons. Move the joystick to choose the next menu icon and press ♠ to select it.



Using the Video Menu

To select the Video Menu

- Press MENU.
- Move the joystick to the Video icon and press .
- 3 Use the joystick to scroll through the features.
- 4 Press to select a feature. That feature's adjustment appears.
- 5 Use the joystick to make the desired adjustments.
- 6 Press 🕞 to select/set.
- Press MENU to exit the menu screen.



To restore the factory default settings for Picture, Brightness, Color, Hue, Sharpness and Color Temp

Press RESET on the remote control when in the Video menu.

Selecting Video Options

To quickly and easily change from one Video Mode to another, use the PIC MODE on the remote control.

The Video menu includes the following options.

Option	Description	
Mode Customized	Vivid	Select for enhanced picture contrast and sharpness.
picture viewing	Standard	Recommended for Normal viewing conditions.
	Movie	Select for soft, film like, picture.
	Pro	Select for professional monitor like appearance.
		Iter the Video menu settings (Picture, Brightness,) for each Mode.
Picture	Adjust to increase picture contrast and deepen the color or decrease picture contrast and soften the color.	
Brightness	Adjust to brighten or darken the picture.	
Color	Adjust to increase or decrease color intensity.	
Hue	Adjust to increase or decrease the green tones.	
Sharpness	Adjust to sharpen or soften the picture.	
Color Temp White intensity adjustment	Choose from three color temperatures:	
	Cool	Select to give the white colors a blue tint.
	Neutral	Select to give the white colors a neutral tint.
	Warm	Select to give the white colors a red tint (NTSC-Standard).

Option	Description	
DRC Mode Digital Reality Creation	Creates a high-resolution picture with 4x density, for high quality sources (i.e., DVD player, Satellite receiver). Select from Interlaced, Progressive and CineMotion.	
	Interlaced	Recommended for moving pictures.
	Progressive	Recommended for still images and text.
	CineMotion	Recommended for 24 frame-per-second films.



Using the Audio Menu

To select the Audio Menu

- Press MENU.
- Move the joystick to the Audio icon and press .
- 3 Use the joystick to scroll through the options.
- 4 Press to select an option. That option's settings appear.
- 5 Use the joystick to scroll through the settings.
- 6 Press 🕀 to select the desired setting.
- 7 Press MENU to exit the menu screen.



☐ Press RESET on the remote control when in the Audio menu.

Selecting Audio Options

The Audio menu includes the following options:

Option	Description	
Treble	Adjust to increase or decrease higher-pitched sounds.	
Bass	Adjust to increase or decrease lower-pitched sounds.	
Balance	Adjust to emphasize left or right speaker balance.	
Steady Sound	ON	Select to stabilize the volume.
	OFF	Select to turn off Steady Sound.
Effect	TruSurround	Select for surround sound (for stereo programs only).
	Simulated	Adds a surround-like effect to mono programs.
	OFF	Normal stereo or mono reception.
MTS Enjoy stereo,	Stereo	Select for stereo reception when viewing a program broadcast in stereo.
bilingual and mono programs	Auto-SAP	Select to automatically switch the projection TV to second audio programs when a signal is received. (If no SAP signal is present, the projection TV remains in Stereo mode.)
	Mono	Select for mono reception. (Use to reduce noise during weak stereo broadcasts.)



Option	Description	
Speaker	ON	Select to turn on the projection TV speakers.
	OFF	Select to turn off the projection TV speakers and listen to the projection TV's sound only through your external audio system speakers.
Easy control the of volume be	The projection TV's speakers are turned off, but the volume output from your audio system can still be controlled by the projection TV's remote control.	
	Fixed	The projection TV's speakers are turned off and the volume, bass and treble output of the projection TV is fixed. Use your audio receiver's volume control to adjust the volume through your audio system.

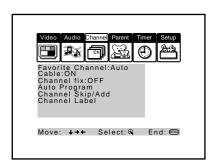
Using the Menus



Using the Channel Menu

To select the Channel Menu

- 1 Press MENU.
- Move the joystick to the Channel icon and press .
- 3 Use the joystick to scroll through the features.
- 4 Press to select a feature. That feature's options appear.
- 5 Use the joystick to scroll through the options.
- **6** Press to select the desired option.
- 7 Press MENU to exit the menu screen.



Selecting Channel Options

The Channel menu includes the following options:

Option	Description	
Favorite Channel	Auto	Select if you want Favorite Channel options to be set automatically to the last eight channels selected with the 0-9 buttons.
	Manual	Select if you want to input your own selections as Favorite Channel options.
		Press to select a favorite channel number.
		Use the joystick to scroll through the channels until you find the channel you want to add to your favorites.
		3 Press 🕀 to select it.
Cable	ON	Select if you are receiving cable channels with a CATV cable.
	OFF	Select if you are using an antenna.
	You should run Auto Program after changing the Cable setting.	

Option	Description	
Channel Fix Useful when you have a cable box or satellite receiver connected	2-6	"Fix" your projection TV's channel setting to 3 or 4 and use the cable box, VCR or satellite receiver to change channels. Select one of these settings if you have connected the device to the VHF/UHF jack.
	AUX 2-6	Same as 2-6, except you select one of these settings if you have connected the device to the AUX jack. (see page 15)
	VIDEO 1	Use when connecting an AV receiver to control external video sources. TV output should be connected through the AV receiver.
Auto Program	Automatically programs the projection TV for all receivable channels.	
Channel Skip/Add	Removes and adds viewable channels. 1 Use the joystick to scroll through the channels until you find the channel you want to skip/add. 2 Press (+) to select it. 3 Press the joystick up or down to toggle between "Add" and "Skip." 4 Press (+) to select.	
Channel Label	Label up to 20 channels with their station call letters.	

Using the Menus



Using the Parent Menu

The Parent menu allows you to set up the TV to block programs according to their content and rating levels.

These ratings are assigned by a federal rating board. Not all programs are rated. Using the Parental Lock blocks programs with a specific rating, but it does not block an entire channel.

A Channel Index will not function when Parental Lock is activated.

Using the Parent Menu

To select the rating

First, set a password, then select the country you reside in (U.S.A. or Canada) and your desired rating.

- 1 Press MENU.
- 2 Move the joystick to the Parent icon and press .



- **3** Use the 0-9 buttons on the remote control to enter your four-digit password.
- 4 Confirm your password by entering it again. Your password is stored and the Parent menu options appear.
 - You need the password entered here for any future access into the Parent menu. If you lose your password, see "Lost password" on page 71.
 - All If you want to change the password, see page 56.
- 5 Make sure that "Country" is selected, and press 🕀.



6 Move the joystick up or down to select U.S.A. or Canada according to the country you reside in, and press \oplus .



7 Move the joystick down to select "Parental Lock", and press 🕀.



8 Move the joystick up or down to select a desired rating, and press 🕁.

If you select Child, Youth, Young Adult or Custom, the Parental Control is activated automatically.



If you want to select the ratings from Custom, see "Using Custom Rating Options" on page 57.

9 Press MENU to exit the menu screen.

Using the Menus

If you are not familiar with the Parental Guideline rating system, you should select Child, Youth, or Young Adult to help simplify the rating selection. To set more restrictive ratings, select Custom.

For descriptions of Child, Youth, and Young Adult ratings, see pages 60 and 61.

The Parent menu includes the following options.

Option	Description		
Parental Lock Turn ratings on/	OFF	Parental lock is off. No programs are blocked from viewing.	
off and select a rating system	Child	Maximum ratings permitted are: ☐ US: TV-Y, TV-G, G ☐ Canada: TV-Y, C, G	
	Youth	Maximum ratings permitted are: US: TV-PG, PG Canada: TV-PG, PG, 8 ans+	
	Young Adult	Maximum ratings permitted are: US: TV-14, PG-13 Canada: TV-14, 14+, 13 ans+	
	Custom	Select to set ratings manually. US: See page 60 for details. Canada: See page 61 for details.	
Change Password	For changing y	changing your password. (see below)	

To deactivate the Parental Control feature

Set Parental Lock to OFF when in the Parent menu.

To change the password

- Select Change Password option when in the Parent menu using the joystick, and press (+).
- 2 Enter a new four-digit password using the 0-9 buttons.
- 3 Confirm the new password by entering it again.
- 4 Press MENU to exit the menu screen.

Viewing Blocked Programs

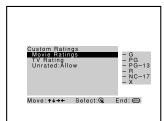
You can view a blocked program by entering the password.

- Press ENTER when tuned to a blocked program.
- 2 Enter your password using the 0-9 buttons.
 Parental Control will be canceled temporarily until you turn your projection TV off.

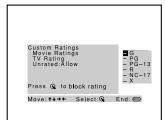
Using Custom Rating Options

If you want to select the ratings to be blocked from Custom, follow the procedure below.

- Perform the steps 1 to 7 in "To select the rating" on page 54 to display the Parental Lock options.
- Move the joystick up or down to select "Custom," and press 🕀.

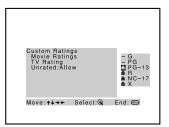


3 Make sure that "Movie Ratings" is selected, and press ①.



4 Move the joystick up or down to select the rating to be blocked, and press 🕀.

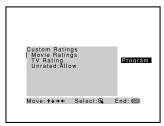
The indicator automatically appears beside the selected rating and all "higher" ratings, indicating that the programs that match the ratings will be blocked.



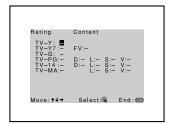
To unblock a rating, select it by moving the joystick up or down, then press ⊕. The indicator ⊕ changes into "-" and all "lower" ratings are unblocked.

Using the Menus

Move the joystick left, then down, to select "TV Rating" or "Program," and press (*).

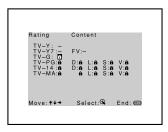


6 The "TV Rating" setting menu appears.



Move the joystick up or down to select the rating to be blocked, and press (+).

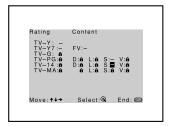
The findicator automatically appears beside the selected rating and all "higher" ratings, indicating that the programs that match the ratings will be blocked.



To unblock a rating, select it by moving the joystick up or down, then press ①. The indicator ② changes into "-" and all "lower" ratings are unblocked.

Some TV ratings have additional content ratings called "extenders." The extenders are defined as follows: D (sexually suggestive Dialog), FV (Fantasy Violence), L (coarse Language), S (Sexual situations) and V (Violence). By setting the extenders, you can define additional viewing limits. All of the extenders included in the selected ratings will be blocked. If you wish to allow any of them to be viewed, go to step 8.

8 Move the joystick left or right to select the extender to be viewed, and press (+).



"-" appears beside the selected extender, indicating that the programs that match the extender can be viewed.

If you press again, is displayed to show that the programs that match the extender will be blocked again.

9 Repeat step 8 for other extenders.

All programs that match the ratings you select and higher, except for the extenders that were canceled, will be blocked.

10Press MENU to exit the menu screen.

Using the Menus

To ensure maximum blocking capability, the age-based ratings should be blocked.

If you choose to block unrated TV programs, please be aware that the following programs may be blocked: emergency broadcasts, political programs, sports, news, public service announcements, religious programs and weather.

US custom rating options

If you selected U.S.A. as the country of residence on page 54, the Custom Rating Menu includes the following options. (If you selected Canada, see page 61.)

Option	Description	
Movie Rating	G	All children and General Audience.
	PG	Parental Guidance suggested.
	PG-13	Parental Guidance for children under 13.
	R	Restricted viewing, parental guidance is suggested for children under 17.
	NC-17 and X	No one 17 and under allowed.
TV Rating	Age-Bas	ed Options
Block programs	TV-Y	All children.
by their rating,	TV-Y7	Directed to older children.
content or both	TV-G	General Audience.
	TV-PG	Parental Guidance suggested.
	TV-14	Parents Strongly cautioned.
	TV-MA	Mature Audience only.
	Content-	Based Options
	FV	Fantasy Violence.
	D	Suggestive Dialogue.
	L	Strong Language.
	S	Sexual situations.
	V	Violence.
Unrated	Block	Blocks all programs and movies that are broadcast
Block programs		without a rating.
or movies that are broadcast without a rating	Allow	Allows programs and movies that are broadcast without a rating.

The content ratings will increase depending on the level of the age-based rating. For example, a program with a TV-PG V (Violence) rating may contain moderate violence, while a TV-14 V (Violence) rating may contain more intense violence.

Canadian custom rating options

If you selected Canada as the country of residence on page 54, the Custom Rating Menu includes the following options. (If you selected U.S.A., see page 60.)

Option	Description	
English Rating	С	All children.
	C8+	Children 8 years and older.
	G	General programming.
	PG	Parental Guidance.
	14+	Viewers 14 and older.
	18+	Adult programming.
French Rating	G	General programming.
	8 ans+	Not recommended for young children.
	13 ans+	Not recommended for ages under 13.
	16 ans+	Not recommended for ages under 16.
	18 ans+	Programming restricted to adults.
USA Rating	See "TV Rating" on page 60 for details.	



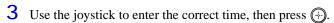
Using the Timer Menu

To select the Timer menu

- Press MENU.
- Move the joystick to the Timer icon and press (+).

To set the Current Time

- 1 Use the joystick to select "Current Time", then press (+).
- 2 If it is currently Daylight Saving Time, be sure to set the mode to "ON" first.



4 Press MENU to exit the menu screen.



Before setting the timer, be sure to set your projection TV's clock to the current time and Daylight Saving Mode.

- 1 Move the joystick to "Timer 1" or "Timer 2", then press 🕒.
- 2 Use the joystick to enter your day, time and channel preferences, then press (+) to select each one.
- 3 Press MENU to exit the menu screen.

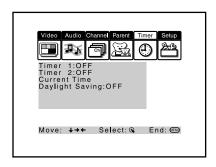
To reset the Clock or Timers

□ Press RESET on the remote control after selecting that option in the Timer menu.

Selecting Timer Options

The Timer menu includes the following options:

Option	Description	
Timer 1 Timer 2	Program	Select to set the Timer by day, time, duration, and channel.
	OFF	Select to turn off the Timer. (Your previous settings will be saved.)
Current Time	Set the current time.	
Daylight Saving	ON	Select in the spring to adjust the time during Daylight Saving Time.
	OFF	Select in the fall to adjust the time at the end of Daylight Saving Time.





Using the Setup Menu

To select the Setup Menu

- Press MENU.
- Move the joystick to the Setup icon and press .
- 3 Use the joystick to scroll through the features.
- 4 Press to select a feature. That feature's options appear.
- 5 Use the joystick to scroll through the options.
- **6** Press to select the desired option.
- **7** Press MENU to exit the menu screen.



Selecting Setup Options

The Setup menu includes the following options:

Option	Description	
Caption Vision	Allows you to select from three closed caption modes (for programs that are broadcast with closed caption).	
	OFF	Turns off Caption Vision.
	CC1, CC2, CC3, CC4	Displays a printed version of the dialog or sound effects of a program. (Should be set to CC1 for most programs.)
	TEXT1, TEXT2, TEXT3, TEXT4	Displays network/station information presented using either half or the whole screen (if available). For closed captioning, set to CC1.
	XDS (Extended Data Service)	Displays a network name, program name, program length, and time of the show if the broadcaster offers this service.

Using the Menus

Option	Description		
Video Label	to the projection TV so VIDEO. When in the St the joystick to highlight select it. Use the joyst to select the componer jacks on the back of your select the componer to the select the componer jacks on the back of your select the componer jacks on the back of your select the componer jacks on the back of your select the select t	e audio/video components you connected to you can identify them when using TV/Setup menu's Video Label feature, use that an input to label, then press to to ick to scroll through the labels. Press to you connected to each of the input our projection TV. Select "Skip" if you do connected to a particular set of input	
	VIDEO 1/2/3/4	VHS, 8mm, Beta, LD, Game, SAT, DVD, Web, Receiver, DTV, Skip	
	VIDEO 5/6	DVD, DTV, HD, Skip	
	If you select "Skip", your projection TV skips this connection when you press TV/VIDEO.		
	When you select ' TV's input is fixed	'Receiver" on Video Label, your projection	
Language	Select to display all on-screen menus in your language of choice: English, Español, Français.		
16:9 Enhanced	such as selected DVD	ture resolution for widescreen sources, titles (only available when the projection e). Press TV/VIDEO and select from one ns:	
	AUTO	To activate automatically when a 16:9 signal is received.	
	ON	To activate manually.	
	OFF	To deactivate manually.	

To use this feature with widescreen DVDs, set your DVD player to 16:9 aspect ratio.

AUTO/ON will appear when projection TV is in video mode 1-6.
ON/OFF will appear when projection TV is in VIDEO mode 5-6 and the 480p signal occurs.

Other Information

Programming the Remote Control

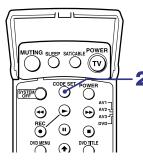
The remote control is preset to operate Sony brand video equipment.

Sony Equipment	Switch Position on Remote Control	Programmable Code Number
Beta, ED Beta VCRs	AV1	303
8 mm VCR	AV2	302
VHS VCR	AV3	301
DVD Player	DVD	751

If you have video equipment other than Sony brand that you want to control with the projection TV's remote control, use the following procedures to program the remote control.



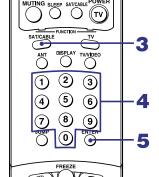
The equipment must have infrared (IR) remote capability in order to be used with the remote control.



From the "Manufacturer's Codes" listed on page 67, select the three-digit code number for the manufacturer's code for your component. If more than one code number is listed, start with the number listed first. Use the code number to complete the following procedure.

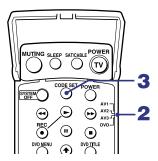
To program a cable box or a satellite receiver

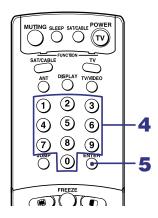
- Open the panel of the remote control.
- 2 Press CODE SET inside the panel.
- Close the panel and press SAT/CABLE (FUNCTON).
- Enter the three-digit manufacturer's code number using the 0-9 buttons.
- 5 Press ENTER.



To check if the code number works, aim the projection TV's remote control at the component and press the green POWER button that corresponds with that component. If it responds, the programming is completed. If not, try using the other codes listed for that manufacturer.

Other Information





To program video equipment

- 1 Open the panel of the remote control.
- 2 Move the slide switch to the desired component type.
- 3 Press CODE SET inside the panel.
 - A You must perform step 4 within 10 seconds of step 3, or you must start again from step 3.
- 4 Close the panel and enter the three-digit manufacturer's code number using the 0-9 buttons.
- 5 Press ENTER.
- To check if the code number works, aim the projection TV's remote control at the component, open the panel, and press the green POWER button. If it responds, the programming is completed. If not, try using the other codes listed for that manufacturer.

Tips

- ☐ If more than one code number is listed, try entering them one by one until you come to the correct code for your component.
- If you enter a new code number, the code number you previously entered at that setting is erased.
- In some rare cases, you may not be able to operate your component with the Sony remote control. In this case, use the component's own remote control unit.

Manufacturer's Codes

VCRs

TORS	
Manufacturer	Code
Sony	301
Admiral	327
(M. Ward)	
Aiwa	338, 344
Audio Dynamic	314, 337
Broksonic	319, 317
Canon	309, 308
Citizen	332
Craig	302, 332
Criterion	315
Curtis Mathes	304, 338, 309
Daewoo	341, 312, 309
DBX	314, 336, 337
Dimensia	304
Emerson	319, 320, 316,
	317, 318, 341
Fisher	330, 335
Funai	338
General Electric	329, 304, 309
Go Video	322, 339, 340
Goldstar	332
Hitachi	306, 304,
	305,338
Instant Replay	309, 308
JC Penney	309, 305, 304,
	330, 314, 336, 337
JVC	
JVC	314, 336, 337, 345, 346, 347
Kenwood	314, 336, 332,
Kenwood	337
LXI (Sears)	332, 305, 330,
, ,	335, 338
Magnavox	308, 309, 310
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Manufacturer	Code
Wards	327, 328, 335, 331, 332
Yamaha	314, 330, 336, 337
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DVD Players

-		
Manufacturer	Code	
Sony	751	
Panasonic	753	
Pioneer	752	
RCA	755	
Toshiba	754	_

Cable Boxes

Manufacturer	Code
Hamlin/Regal	222, 223, 224,
	225, 226
Jerrold/G. I.	201, 202, 203,
	204, 205, 206,
	207, 208, 218
Oak	227, 228, 229
Panasonic	219, 220, 221
Pioneer	214, 215
Scientific	209, 210, 211
Atlanta	
Tocom	216, 217
Zenith	212, 213

Satellite Receivers

Manufacturer	Code
Sony	801
General	802
Electric	
Hitachi	805
Hughes	804
Panasonic	803
RCA/	802, 808
PROSCAN	
Toshiba	806, 807

Operating Other Components with Your Projection TV Remote Control

Operating a VCR

Open the panel and move the slide switch to the AV input you coded for this device.

To Do This	Press		
Turn on/off	green POWER button (inside the panel)		
Change channels	CH +/-		
Record	➤ and REC simultaneously		
Play	>		
Stop			
Fast forward	>>		
Rewind the tape	←		
Pause	II (press again to resume normal playback)		
Search the picture	▶▶ or ◀◀ during playback		
forward or backward	(release to resume normal playback)		
Change input mode	Slide switch		

Operating a DVD Player

Open the panel and move the slide switch to the DVD input you coded for this device.

To Do This	Press
Turn on/off	green POWER button (inside the panel)
Play	>
Stop	
Pause	II (press again to resume normal playback)
Step through different tracks of an audio disc	▶▶ to step forward or ◀◀ to step backward
Step through different chapters of a video disc	CH+ to step forward or CH- to step backward
Display the DVD menu	DVD MENU
Select tracks directly	0-9 buttons
Display the menu (Setup)	MENU
Display the DVD title	DVD TITLE
Operate the DVD menu	↑ , ↓ , ← , → , ENTER

Operating a Cable Box

To Do This	Press		
Turn on/off	SAT/CABLE (POWER)		
Select Cable Box	SAT/CABLE (FUNCTION)		
Select a channel	0-9 buttons, ENTER		
Change channels	CH +/-		
Back to previous channel	JUMP		

Operating a Satellite Receiver

To Do This	Press		
Turn on/off	SAT/CABLE (POWER)		
Select Satellite Receiver	SAT/CABLE (FUNCTION)		
Select a channel	0-9 buttons, ENTER		
Change channels	CH +/-		
Back to previous channel	JUMP		
Display channel number	DISPLAY		
Display DBS guide	GUIDE		
Display DBS menu	MENU		
Move highlight (cursor)	Joystick or arrows		
Select item			

Troubleshooting

If, after reading these operating instructions, you have additional questions related to the use of your Sony television, please call our Customer Information Services Center at 1-800-222-SONY (7669) (U.S. residents only) or (416) 499-SONY (7669) (Canadian residents only).

Problem	Po	ssible Remedies
No picture (screen not lit), no sound		Make sure the projection TV's power cord is connected securely to the wall outlet Push the power button on the front of the projection TV. Check to see if the TV/VIDEO setting is correct: when watching TV, set to TV, and when watching connected equipment, set to VIDEO 1, 2, 3, 4, 5 or 6. Try another channel. It could be station trouble. The Parental Control feature is activated. (see "Using the Parent Menu" on page 54) If your projection TV does not turn on, and a red light keeps flashing, your projection TV may need service. Call your local Sony Service Center.
Remote control does not operate	0000	Batteries could be weak. Replace the batteries. Press TV (FUNCTION) when operating your projection TV. Make sure the projection TV's power cord is connected securely to the wall outlet Locate the projection TV at least 3-4 feet away from fluorescent lights. Check the orientation of the batteries.
Dark, poor or no picture (screen lit), good sound	0 0 0	Adjust the Picture setting in the Video menu. (see page 48) Adjust the Brightness setting in the Video menu. (see page 48) Check antenna/cable connections. Adjust the convergence again using FLASH FOCUS. (see "Adjusting the Convergence Automatically – FLASH FOCUSTM —" on page 33)
Good picture, no sound	<u> </u>	Press MUTING so that "MUTING" disappears from the screen. (see page 34) Make sure Speaker is set to ON in the Audio menu. (see page 51) Check the MTS setting in the Audio menu. (see "MTS" on page 50)
Cannot receive digital channels (when a DTV receiver is connected)	0	Check the connections between the DTV receiver and the projection TV. (see page 28) Check your local listings to find out if you can receive digital broadcasts in your area.
Cannot receive upper channels (UHF) when using an antenna	0	Change Cable to OFF. (see page 52) Use Auto Program in the Channel menu to add receivable channels that are not presently in TV memory. (see page 53)
No color		Adjust the Color settings in the Video menu. (see page 48)
Only snow and noise appear on the screen	0	Check the Cable setting in the Channel menu. (see "Cable" on page 52) Check the antenna/cable connections. Make sure the channel is broadcasting programs. Press ANT to change the input mode. (see page 37)
Dotted lines or stripes	0	Adjust the antenna. Move the projection TV away from noise sources such as cars, neon signs, or hair-dryers.

Problem Possible Remedies		
Projection TV is fixed to one channel	 Use Auto Program in the Channel menu to add receivable channels that are not presently in TV memory. (see page 53) Check your Channel Fix settings. (see page 53) 	
Double images or ghosts	Use a highly directional outdoor antenna or a cable (when the problem is caused by reflections from nearby mountains or tall buildings).	
Cannot operate menu	☐ If the item you want to choose appears in gray, you cannot select it. ☐ Turn the projection TV's power off and on again.	
Cannot receive any channels when using cable TV	 Use Auto Program in the Channel menu to add receivable channels that are not presently in TV memory. (see page 53) Check your cable settings. Make sure Cable is set to ON in the Channel menu. (see page 52) 	
Cannot gain enough volume when using a cable box	☐ Increase the volume of the cable box using the cable box's remote control. Then press TV (FUNCTION) and adjust the projection TV's volume.	
Channel Index does not display all available channels	 Make sure Cable is set to ON in the Channel menu. (see "Cable" on page 52) Use Auto Program in the Channel menu to add receivable TV channels that are not presently in TV memory. (see page 53) 	
Cannot receive channels Unable to select a channel	Use Auto Program in the Channel menu to add receivable TV channels that are not presently in TV memory. (see page 53)	
Lost password	☐ In the password screen (see page 54), enter the following master password: 4357. The master password clears your previous password; it cannot be used to temporarily unblock channels.	
Cannot change channels with the remote control	 Be sure you have not inadvertently switched your projection TV from channel 3 or 4 setting if you are using another device to change channels. If you are using another device to control channels, be sure the "function" button for that device has been pressed, or the slide switch is set correctly. For example, if you are using your cable to control channels, be sure to press SAT/CABLE. 	
Cannot cycle through the other video equipment connected to the projection TV	☐ Be sure the Video Label feature has not been set to Skip. (see page 64)	
There is a black box on the screen	You have selected a text option in the Setup menu and no text is available. (see page 63 to reset Setup selections) To turn this feature off, select OFF in the Caption Vision option. If you were trying to get closed captioning, select CC1 instead of Text 1-4.	
There is no twin picture or it is just static	You may be tuned to a video input with nothing connected to it. Try cycling through your video inputs using TV/VIDEO.	
	□ Twin View is not set to receive a signal from the AUX input. If you have connected a VCR, DVD player or satellite receiver to the AUX input on the projection TV, it will not show in the second picture.	

Other Information

Problem	Possible Remedies	
I get the same program in the window picture as in the main picture		Both may be set to the same channel. Try changing channels in either the main picture or the window picture. You may be running all your channels through a cable box. The cable box will only unscramble one signal at a time, so you cannot use the Twin View feature. If possible, run a direct cable to your projection TV's VHF/UHF input. (This will only work if your cable system provides an unscrambled signal.)
I cannot get anything but TV channels in my second picture		Be sure the video label has not been set to skip your video inputs. See the Setup menu on page 63.
Favorite Channel does not display your choices		Verify that Favorite Channel is set to Manual in the Channel menu. (see "Favorite Channel" on page 52)
Some video sources do not appear when you press TV/VIDEO		Ensure that Video Label is not set to SKIP. (see "Video Label" on page 64)

Specifications

Projection system	3 picture tubes, 3 lenses, horizontal in-line system		
Picture Tube	7-inch high-brightness monochrome tubes (6.3 raster size), with optical coupling and liquid cooling system		
Projection lenses	High performance, larg	ge	
	diameter hybrid lens F	1.1	
Antenna	75 ohm external termin	nal for VHF/UHF	
Television System	NTSC, American TV S	Standard	
Screen size (measured diagonally)	43 inches (KP-43HT20	0)	
	53 inches (KP-53HS20		
	61 inches (KP-61HS20), KP-61HS30)	
Channel Coverage			
VHF	2-13		
UHF	14-69		
CATV	1-125		
Power Requirements	120V, 60 Hz		
Number of Inputs/Outputs			
Video (IN)	4	1 Vp-p, 75 ohms unbalanced, sync negative	
S Video (IN)	3	Y: 1 Vp-p, 75 ohms unbalanced, sync	
		negative	
		C: 0.286 Vp-p (Burst signal), 75 ohms	
Audio (IN)	6	500 mVrms (100% modulation)	
		Impedance: 47 kiloohms	
AUDIO (VAR/FIX) OUT	1	500 mVrms (100 % modulation), Impedance:	
,		470 ohms	
TV Out	1	1 Vp-p, 75 ohms unbalanced, sync negative	
CONTROL S (IN/OUT)	1	minijacks	
Component Video Input	2 (Y, P _B , P _R)	Y: 1.0 Vp-p, 75 ohms unbalanced, sync	
	<i>D N</i>	negative	
		P _B : 0.7 Vp-p, 75 ohms	
		P _R : 0.7 Vp-p, 75 ohms	
RF Inputs	2	1 17	
Converter	1		

Other Information

Supplied Accessories		
Remote Control	RM-Y908	
AA (R6) Batteries	2 supplied for remote control	
Optional Accessories		
AV Cable	VMC-810/820/830 HG	
Audio Cable	RKC-515HG	
Control S Cable	RK-G69HG	
Component Video Cable	VMC-10/30 HG	
AV receiver	STR-V555ES	
TV Stand	SU-43HT4/43HT5	
Speaker Output	20 W × 2 (KP-43HT20, KP-53HS30, KP-61HS30)	
	$18 \text{ W} \times 2 \text{ (KP-53HS20, KP-61HS20)}$	
Dimensions $(W \times H \times D)$	$38 \times 42^{1/8} \times 22^{4/3}$ inches (965 × 1,069 × 577 mm) (KP-43HT20)	
	46 $^{1}/_{2} \times 55$ $^{7}/_{8} \times 25$ inches (1,180 × 1,417 × 632 mm) (KP-53HS20, KP-	
	53HS30)	
	$54 \times 61^{-1/2} \times 26^{-1/4}$ inches $(1,370 \times 1,560 \times 666 \text{ mm})$ (KP-61HS20, KP-	
	61HS30)	
Mass	119 lb 8 oz (54.2 kg) (KP-43HT20)	
	152 lb 9 oz (69.2 kg) (KP-53HS20)	
	157 lb (71.2 kg) (KP-53HS30)	
	203 lb 11 oz (92.4 kg) (KP-61HS20)	
	210 lb 5 oz (95.4 kg) (KP-61HS30)	
Power Consumption		
In Use	230 W	
In Standby	Under 1 W	

Design and specifications are subject to change without notice.

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If, after reading this instruction manual, you have additional questions related to the use of your Sony projection TV, please call one of the following numbers (English only).

Customers in the continental United States contact the Direct Response Center at:

1-800-222-SONY (7669)
Customers in Canada contact the
Customer Relations Center at:
(416) 499-SONY (7669)

RA-6 CHASSIS

MODEL NAME	REMOTE COMMANDER	<u>DESTINATION</u>	CHASSIS NO.
KP-43HT20	RM-Y908	US	SCC-P65C-A
KP-43HT20	RM-Y908	CAN	SCC-P65C-A
KP-53HS20	RM-Y908	US	SCC-P65D-A
KP-53HS20	RM-Y908	CAN	SCC-P65D-A
KP-53HS30	RM-Y908	US	SCC-P65A-A
KP-53HS30	RM-Y908	CAN	SCC-P65A-A
KP-61HS20	RM-Y908	US	SCC-P65E-A
KP-61HS20	RM-Y908	CAN	SCC-P65E-A
KP-61HS30	RM-Y908	US	SCC-P65B-A
KP-61HS30	RM-Y908	CAN	SCC-P65B-A

ORIGINAL MANUAL ISSUE DATE: 7/2001

ALL REVISIONS AND UPDATES TO THE ORIGINAL MANUAL PRIOR TO 9/2004 ARE APPENDED TO THE END OF THE PDF FILE.

REVISIONS AND UPDATES AFTER 9/2004 ARE IDENTIFIED WITH

REVISION DATE	REVISION TYPE	SUBJECT			
7/2001	No revisions or updates are applicable at this time.				
3/2002	Correction - 1	IC702, IC703 P/N's corrected on A Board in Electrical Parts List			
10/2002	Supplement - 1(Expired)	Data added for KP-53HS30 models with S/N's 90000001 and up			
10/2002	Correction - 2	Add L5010, L5011 to Parts List and G Board Schematic			
7/2003	Correction - 3	Electrical Parts List - P/N Correction/Addition on G Board			
10/2003	Supplement - 2	Correction to Supplement - 1. This is being corrected to show current CRT P/N's only. The rest of the information did not change.			
10/2004		3-11-1. Setup For Adjustment. Note is intended for use by the factory lld not be performed by service technicians (Replaced Pg. 25 with Pg. 25)			
5/2005	Added Caution statement (F				

COLOR REAR VIDEO PROJECTOR
SONY



RA-6 CHASSIS

MODEL NAME	REMOTE COMMANDER	<u>DESTINATION</u>	CHASSIS NO.	
KP-4 3	HT20 RM-Y908	US	SCC-P65C-A	
KP-4 3	HT20 RM-Y908	CAN	SCC-P65C-A	
KP-53	HS20 RM-Y908	US	SCC-P65D-A	
KP-53	HS20 RM-Y908	CAN	SCC-P65D-A	
KP-53	HS30 RM-Y908	US	SCC-P65A-A	
KP-53	HS30 RM-Y908	CAN	SCC-P65A-A	
KP-61	HS20 RM-Y908	US	SCC-P65E-A	
KP-61	HS20 RM-Y908	CAN	SCC-P65E-A	
KP-61	HS30 RM-Y908	US	SCC-P65B-A	
KP-61	HS30 RM-Y908	CAN	SCC-P65B-A	
		OTION 4		

CORRECTION - 1

SUBJECT: A BOARD IC702, IC703 P/N CORRECTION

Correct the service manual as shown. File this Correction with the service manual.

: Corrected Item

Section 8: Electrical Parts List (Page 115)

INCORRECT

CORRECT

REF. NO.	PART NO.	DESCRIPTION		REF. NO.	PART NO.	DESCRIPTION	
IC702 IC703	8-759-675-72 8-759-675-72	IC M24C08-WMN6T IC M24C08-WMN6T	4 5	IC702 IC703	8-759-575-71 8-759-675-64	IC M24C04-WMN6T IC M24C08-MN6T(A)	

COLOR REAR VIDEO PROJECTOR



Sony Corporation
HNC, HVC, Projection Display
Business Div.

English 2002JC7402-1 © 2002.3



RA-6 CHASSIS

MODEL NA	<u>ME</u>	REMOTE COMMANDER	DESTINATION	CHASSIS NO.
KP-4	3HT20	RM-Y908	US	SCC-P65C-A
KP-4	3HT20	RM-Y908	CAN	SCC-P65C-A
KP- 5	3HS20	RM-Y908	US	SCC-P65D-A
KP- 5	3HS20	RM-Y908	CAN	SCC-P65D-A
KP-5	3HS30	RM-Y908	US	SCC-P65A-A
KP-5	3HS30	RM-Y908	CAN	SCC-P65A-A
≪ KP-5	3HS3			SC :-P65M-A (S/N 9000001 and up)
≪ KP-5	3HS3	NIVI- 1900	CIND	SC:-P65M-A (S/N 9000001 and up
KP-6	1HS20	RM-Y908	US	SCC-P65E-A
KP-6	1HS20	RM-Y908	CAN	SCC-P65E-A
KP-6	1HS30	RM-Y908	US	SCC-P65B-A

SUPPLEMENT - 1

SUBJECT: THIS SUPPLEMENT IS FOR KP-53HS30 MODELS WITH S/N'S 90000001 AND UP.

Correct the service manual as shown. File this Supplement with the service manual.

:Added Item (for KP-53HS30 S/N's 90000001 and up)

Section 6: DIAGRAMS (Page 63)

6-3. SCHEMATIC DIAGRAMS - D (2/3) BOARD CIRCUIT

Section 7: EXPLODED VIEWS (Page 95, 96)

7-4. CHASSIS

7-5. PICTURE TUBE

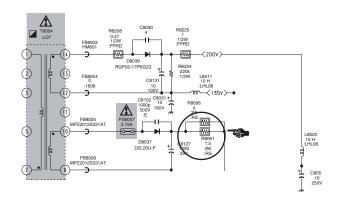
Section 8: ELECTRICAL PARTS LIST (Page 122, 125, 130)

COLOR REAR VIDEO PROJECTOR



: Added Item

SECTION 6: DIAGRAMS (Page 63) (for KP-53HS30 S/N's 90000001 and up) 6-3. SCHEMATIC DIAGRAMS - D (2/3) BOARD CIRCUIT



SECTION 7: EXPLODED V EWS (P 2007, 1) 10 17 330 S/N's 30000001 and up)

7-4: CHASSIS (Page

TUBE (Page 96)

REF. NO.	PART NO.	DESCRIPTION	
164	A-1404-674-A	D MOUNT (VAR)	

KEF. NO.	PART NO.	DESCRIPTION	
<u>^</u> 1205	1-451-537-22	DEFLECTION YOKE	
1 207	8-733-597-15	CRT 07MVC3(R)-L(LF)	
1 209	8-733-662-15	CRT 07MVC2(G)-L(LF)	
<u> </u>	8-733-596-25	CRT 07MVC3(B)-L(LFG)	

SECTION 8: ELECT. PARTS LIST (Page 122, 125, 130) (for KP-53HS30 S/N's 90000001 and up)

(Page	122)
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ART NO.	DESCRIPTION
1404-674-A	D MOUNT, (VAR)
1	404-674-A

REF. NO.	PART NO.	DESCRIPTION			
R8061	1-216-391-71	METAL OXIDE	1.5	5%	3W

(Page 130)

REF. NO.	PART NO.	DESCRIPTION	
	1-451-537-22	DEFLECTION YOKE	
	8-733-597-15	CRT 07MVC3(R)-L(LF)	
	8-733-662-15	CRT 07MVC2(G)-L(LF)	
	8-733-596-25	CRT 07MVC3(B)-L(LFG)	



RA-6 CHASSIS

MODEL NAME	REMOTE COMMANDER	<u>DESTINATION</u>	CHASSIS NO.
KP-43HT20	RM-Y908	US	SCC-P65C-A
KP-43HT20	RM-Y908	CAN	SCC-P65C-A
KP-53HS20	RM-Y908	US	SCC-P65D-A
KP-53HS20	RM-Y908	CAN	SCC-P65D-A
KP-53HS30	RM-Y908	US	SCC-P65A-A
KP-53HS30	RM-Y908	CAN	SCC-P65A-A
KP-53HS30	RM-Y908	US	SCC-P65M-A (S/N 9000001 and up)
KP-53HS30	RM-Y908	CND	SCC-P65M-A (S/N 9000001 and up
KP-61HS20	RM-Y908	US	SCC-P65E-A
KP-61HS20	RM-Y908	CAN	SCC-P65E-A
KP-61HS30	RM-Y908	US	SCC-P65B-A

CORRECTION - 2

SUBJECT: ADD L5010, L5011 TO PARTS LIST

AND G BOARD SCHEMATIC.

Correct the service manual as shown. File this Correction with the service manual.

:Corrected Item

Section 6: DIAGRAMS LIST (Page 66)

6-3. SCHEMATIC DIAGRAMS - G (2/2) BOARD CIRCUIT

Section 8: ELECTRICAL PARTS LIST (Page 128)

COLOR REAR VIDEO PROJECTOR
SONY

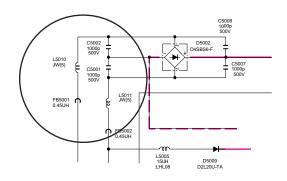
8

: Corrected Item

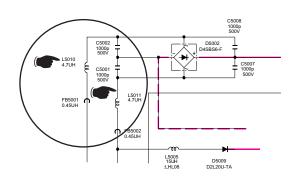
SECTION 6: DIAGRAMS (Page 66)

6-3. SCHEMATIC DIAGRAMS - G (2/2) BOARD CIRCUIT

INCORRECT



CORRECT



SECTION 8: ELECT. PARTS LIST (Page 66)

INCORRECT

CORRECT

PART NO.	DESCRIPTION	
> M	EEDS TO BE ADDED	
		NEEDS TO BE ADDED NEEDS TO BE ADDED

REF. NO.	PART NO.	DESCRIPTION		
£5010	1-412-521-31	INDUCTOR	4.7UH	
L5011	1-412-521-31	INDUCTOR	4.7UH	



RA-6 CHASSIS

MODEL NAME	REMOTE COMMANDER	<u>DESTINATION</u>	CHASSIS NO.
KP-43HT20	RM-Y908	US	SCC-P65C-A
KP-43HT20	RM-Y908	CAN	SCC-P65C-A
KP-53HS20	RM-Y908	US	SCC-P65D-A
KP-53HS20	RM-Y908	CAN	SCC-P65D-A
KP-53HS30	RM-Y908	US	SCC-P65A-A
KP-53HS30	RM-Y908	CAN	SCC-P65A-A
KP-53HS30	RM-Y908	US	SCC-P65M-A (S/N 9000001 and up)
KP-53HS30	RM-Y908	CND	SCC-P65M-A (S/N 9000001 and up
KP-61HS20	RM-Y908	US	SCC-P65E-A
KP-61HS20	RM-Y908	CAN	SCC-P65E-A
KP-61HS30	RM-Y908	US	SCC-P65B-A

CORRECTION - 3

SUBJECT: ELECTRICAL PARTS LIST P/N CORRECTION/ADDITION ON G BOARD

Correct the service manual as shown. File this Correction with the service manual.

:Corrected Item

Section 8: Electrical Parts List (Page 97) G Board (Pages 126-129)

	INC	CORRE	CT	
IC5006	8-759-504-46	PQ05RF-1		IC5006

3-759-504-46 PQ05RF-1	IC5006	8-759-069-28
Needs to be Added>	D5027	8-719-069-54
Needs to be Added>	R5048	1-216-833-11

COLOR REAR VIDEO PROJECTOR

CORRECT

SONY®

PQ05RF-11 UDZSTE-175.1B

METAL CHIP 10K 5% 1/10W

Sony Corporation
Sony Technology Center
Technical Services
Service Promotion Department

English 2003GJ7WEB-1 Printed in USA © 2003.7

RA-6 CHASSIS

MODEL NAME	REMOTE COMMANDER	DESTINATION	CHASSIS NO.
KP-43HT20	RM-Y908	US	SCC-P65C-A
KP-43HT20	RM-Y908	CAN	SCC-P65C-A
KP-53HS20	RM-Y908	US	SCC-P65D-A
KP-53HS20	RM-Y908	CAN	SCC-P65D-A
KP-53HS30	RM-Y908	US	SCC-P65A-A
KP-53HS30	RM-Y908	CAN	SCC-P65A-A
KP-53HS30	RM-Y908	US	SCC-P65M-A (S/N 9000001 and up)
KP-53HS30	RM-Y908	CND	SCC-P65M-A (S/N 9000001 and up
<i>KP61HS20</i>	RM-Y908	US	SCC-P65E-A
KP-61HS20	RM-Y908	CAN	SCC-P65E-A
KP-61HS30	RM-Y908	US	SCC-P65B-A
KP-61HS30	RM-Y908	CAN	SCC-P65B-A

SUPPLEMENT - 2

SUBJECT: THIS SUPPLEMENT IS FOR KP-53HS30 MODELS WITH S/N'S 90000001 AND UP.

Correct the service manual as shown. File this Supplement with the service manual.

:Added Item (for KP-53HS30 S/N's 90000001 and up)

Section 6: DIAGRAMS (Page 63)

6-3. SCHEMATIC DIAGRAMS - D (2/3) BOARD CIRCUIT

Section 7: EXPLODED VIEWS (Page 95, 96)

7-4. CHASSIS

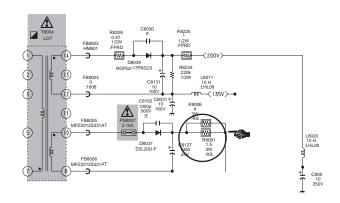
7-5. PICTURE TUBE

Section 8: ELECTRICAL PARTS LIST (Page 122, 125, 130)

COLOR REAR VIDEO PROJECTOR
SONY

: Added Item

SECTION 6: DIAGRAMS (Page 63) (for KP-53HS30 S/N's 90000001 and up) 6-3. SCHEMATIC DIAGRAMS - D (2/3) BOARD CIRCUIT



SECTION 7: EXPLODED VIEWS (Page 95, 96) (for KP-53HS30 S/N's 90000001 and up)

7-4: CHASSIS (Page 95)

		\ 3	,
REF. NO.	PART NO.	DESCRIPTION	
164	A-1404-674-A	D MOUNT (VAR)	
		,	

7-5: PICTURE TUBE (Page 96)

REF. NO.	PART NO.	DESCRIPTION	
<u>^</u> 205	1-451-537-22	DEFLECTION YOKE	
⚠ 207	8-733-597-25	CRT 07MVC3(R)-L(LF)	
⚠ 209	8-733-662-25	CRT 07MVC2(G)-L(LF)	
<u> 1</u> 210	8-733-596-35	CRT 07MVC3(B)-L(LFG)	

SECTION 8: ELECT. PARTS LIST (Page 122, 125, 130) (for KP-53HS30 S/N's 90000001 and up)

(Page 122)	(F	'age	122)
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	,		
REF. NO.	PART NO.	DESCRIPTION	
	A-1404-674-A	D MOUNT, (VAR)	

(Page	125)
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REF. NO.	PART NO.	DESCRIPTION			
R8061	1-216-391-71	METAL OXIDE	1.5	5%	3W

(Page 130)

REF. NO.	PART NO.	DESCRIPTION	
	1-451-537-22	DEFLECTION YOKE	
	8-733-597-25	CRT 07MVC3(R)-L(LF)	
	8-733-662-25	CRT 07MVC2(G)-L(LF)	
	8-733-596-35	CRT 07MVC3(B)-L(LFG)	

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